

~~Patent Literature Abstracts

File 344: Chinese Patents Abs Jan 1985- 2006/ Jan

(c) 2006 European Patent Office

File 347: JAPI O Dec 1976- 2007/ Dec(Updated 080328)

(c) 2008 JPO & JAPI O

File 350: Derwent WPI X 1963- 2008/ UD=200827

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Set	Items	Description
S1	111912	(SPEECH OR LANGUAGE OR VOICE OR AUDITORY) (2N) (RECOGNITION - OR RECOGNIZ? OR RECOGNIS? OR PROCESS? OR INPUT? OR OUTPUT? OR SYNTHES?)
S2	32410	GRAMMAR OR VOCABULARY OR DICTIONAR? OR LEXICON?
S3	350819	ENTRY OR ENTRIES OR WORD? ? OR UTTERANCE? ?
S4	1987827	FILE OR FILES OR FOLDER? ? OR PROGRAM? ? OR PROGRAMME OR APPLICATION? ? OR EXECUTABLE
S5	1042985	USER OR USERS OR CLIENT? ? OR SUBSCRIBER? ?
S6	44571	S5(4N) (SPEAK??? OR ENUNCIAT??? OR VOCALIZ??? OR SAYS OR START??? OR UTTER???)
S7	165635	S4(5N) (OPEN??? OR RUN OR RUNS OR EXECUT??? OR START??? OR LAUNCH??? OR ACCESS??? OR ACTIVAT???)
S8	28582	(VOICE OR LANGUAGE) (2N) (CONTROL? OR ACTIVAT? OR OPERAT? OR COMMAND?)
S9	38294	OPERATING() SYSTEM?
S10	26	AU=(MAJOR, A? OR MAJOR A? OR WANDINGER, M? OR WANDINGER M?)
S11	9	S10 AND S1
S12	12488	S2(30N) S3
S13	3691	S12 AND S1
S14	2290	S6 AND S3
S15	159	S13 AND S14
S16	32	S15 AND (S7 OR S8)
S17	24	S16 AND IC=G10L?
S18	12	S13 AND S9
S19	7	S18 AND IC=G10L?

* 11/3, K1 (Item 1 from file: 350)

DIALOG(R) File 350: Derwent WPI X

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0016699175 - Drawing available

WPI AOC NO: 2007-414255/200740

XRPX Acc No: N2007-311092

Adaptive speech recognition method for controlling e.g. mobile phone, involves transmitting user-dependent adjustment parameters for speech recognition to input device, and carrying out speech recognition of user based on parameters

Patent Assignee: SIEMENS AG (SI EI)

Inventor: GUI TARTE P J F; LUKAS K; **WANDINGER M**

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 102005041618	A1	20070315	DE 102005041618	A	20050901	200740 B

Priority Applications (no., kind, date): DE 102005041618 A 20050901

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
DE 102005041618	A1	DE	13	5	

Adaptive speech recognition method for controlling e.g. mobile phone, involves transmitting user-dependent adjustment parameters for speech recognition to input device, and carrying out speech recognition of

user based on parameters

... Inventor: **WANDINGER M**

Alerting Abstract ... NOVELTY - The method involves transmitting user-dependent adjustment parameters for a **speech recognition** from a central server (4) to input devices (2, 6) via a communication channel (5). The **speech recognition** of a user (8) is carried out in the input devices based on the user...

... processing by the server unit to determine the user-dependent adjustment parameters corresponding to a **speech recognition** model. DESCRIPTION - An INDEPENDENT CLAIM is also included for a system for adaptive **speech recognition**, comprising an input device...

... USE - Used for an adaptive **speech recognition** of a user to control and provide instruction input for devices such as mobile phone...

... ADVANTAGE - The method provides **speech recognition** adapted to a user in different devices, without requiring a user to carry out an individual adjustment with each device, thus reducing the expenditure for adaptation of speaker-dependent **speech recognition**.

...

... DESCRIPTION OF DRAWINGS - The drawing shows a schematic view of a **speech recognition** system

Original Publication Data by Authority

Inventor name & address:

... **Wandinger, Michael, 81829 Munchen, DE**

* 11/3, K/2 (Item 2 from file: 350)

DI ALOG (R) File 350: Derwent WPI X

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0015314455 - Drawing available

WPI ACC NO: 2005-664663/200568

XRPX Acc No: N2005-544380

Voice recognition for portable instruments, e.g. telephones and the like, establishes a confidence measure and threshold for speech dependent and speech adaptive systems

Patent Assignee: SIEMENS AG (SI EI); SCHROER A (SCHR-I); STRANART T (STRA-I); **WANDINGER M (WAND-I)**

Inventor: SCHNEIDER T; SCHROEER A; STRANART T; **WANDINGER M**; SCHROER A

Patent Family (3 patents, 107 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2005088607	A1	20050922	WO 2005EP50342	A	20050127	200568 B
EP 1723636	A1	20061122	EP 2005707860	A	20050127	200677 E
			WO 2005EP50342	A	20050127	
US 20070213978	A1	20070913	WO 2005EP50342	A	20050127	200762 E
			US 2006592526	A	20060912	

Priority Applications (no., kind, date): DE 102004012206 A 20040312

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
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WO 2005088607	A1	DE	21	3	
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National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN

TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
Regional Designated States, Original: AT BE BG BW CH CY CZ DE DK EA EE ES
FI FR GB GH GM GR HU IE IS IT KE LS LT LU MC MW MZ NA NL OA PL PT RO SD
SE SI SK SL SZ TR TZ UG ZM ZW
EP 1723636 A1 DE PCT Application WO 2005EP50342
Based on OPI patent WO 2005088607
Regional Designated States, Original: DE FR GB IT
US 20070213978 A1 EN PCT Application WO 2005EP50342

Voice recognition for portable instruments, e.g. telephones and the like, establishes a confidence measure and threshold...
...Inventor: WANDINGER M

Alerting Abstract ... NOVELTY - During voice recognition, at a portable instrument, a nominal recognition can be derived or be given. The voice is recognized, and a confidence measure is determined for the nominal recognition, giving a defined confidence threshold...
USE - The voice recognition system is for use with a variety of portable instruments e.g. mobile telephones, personal...

... DESCRIPTION OF DRAWINGS - The drawing shows a flow chart of the voice recognition stages in a speech adaptive training program with matching confidence thresholds. (The drawing includes non...

Original Publication Data by Authority

Inventor name & address:
... WANDINGER, Michael ...

... Wandinger, Michael ...

... WANDINGER, Michael

Original Abstracts:

During a voice recognition, a theoretic identification result is deducible or already given. The recognition process is carried out...

... During a voice recognition, a theoretic identification result is deducible or already given. The recognition process is carried out...

... During a voice recognition, a theoretic identification result is deducible or already given. The recognition process is carried out...

Claims:

1- 9. (cancel ed) 10. A method for voice recognition, comprising: deducing and/or specifying a theoretic identification result for a recognition process of a voice recognition system receiving a spoken theoretic identification result from a user; and performing the recognition process...

* 11/3, K/3 (Item 3 from file. 350)

DI ALOG (R) File 350: Derwent WPI X

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0014393762 - Drawing available

WPI ACC NO: 2004-583104/200457

XRPX Acc No: N2004-460869

Speech recognition method for a mobile terminal, e.g. PDA, MP3-player, mobile phone, in which background noise profiles are stored and selected for use in conjunction with the speech recognition process

Patent Assignee: SIEMENS AG (SI EI)

Inventor: MAUCHER; SCHROEER A

Patent Family (3 patents, 31 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
EP 1445759	A1	20040811	EP 2004100134	A	20040116	200457 B
DE 10305369	A1	20041104	DE 10305369	A	20030210	200472 E
DE 10305369	B4	20050519	DE 10305369	A	20030210	200534 E

Priority Applications (no., kind, date): DE 10305369 A 20030210

Patent Details

Number	Kind	Lang	Pg	Dwg	Filing	Notes
EP 1445759	A1	DE	9	3		

Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Speech recognition method for a mobile terminal, e.g. PDA, MP3-player, mobile phone, in which background noise profiles are stored and selected for use in conjunction with the speech recognition process

Original Titles:

... User adaptive method for modeling of background noise in speech recognition
Inventor: MAJOR A R ...

Alerting Abstract ... NOVELTY - Speech recognition method in which a number of background noise profiles are stored and provided and one is selected to be used during a speech recognition process: ... Background noise profiles can be stored by users and used to improve and train their speech recognition applications...

... USE - Speech recognition method for a mobile terminal, e.g. PDA, MP3-player, mobile phone...

... ADVANTAGE - Speech recognition is improved...

Original Publication Data by Authority

Inventor name & address:

Major, Andreas Ralph, 81677 Munchen, DE ...

... Major, Andreas Ralph, 81677 Munchen, DE ...

... Major, Andreas Ralph

* 11/3, K/4 (Item 4 from file 350)

DI ALOG(R) File 350: Derwent WPI X

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0014112337 - Drawing available

WPI ACC NO: 2004-296669/200428

XRPX Acc No: N2004-235662

Voice-based text input for pre-installed applications of mobile devices e.g. mobile phones, involves voice signal input with conversion by voice recognition device into textual units

Patent Assignee: SIEMENS AG (SI EI)

Inventor: HARENGEL S; MAJOR A R

Patent Family (2 patents, 106 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 10337822	A1	20040325	DE 10337822	A	20030818	200428 B
WO 2005020211	A1	20050303	WO 2004EP51753	A	20040809	200519 E

Priority Applications (no., kind, date): DE 10337822 A 20030818

Patent Details

Number Kind Lan Pg Dwg Filing Notes

DE 10337822 A1 DE 5 1

WO 2005020211 A1 DE

National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Regional Designated States, Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

Voice -based text input for pre-installed applications of mobile devices e.g. mobile phones, involves voice signal input with conversion by voice recognition device into textual units

Original Titles:

... VOICE - ASSISTED TEXT INPUT FOR PRE-INSTALLED APPLICATIONS IN MOBILE DEVICES

... Inventor: MAJOR A R

Alerting Abstract ... NOVELTY - A procedure for voice recognition for an application taking place sequentially on an operation system and in which the application is ready for receiving textual units from the operating system and in which a voice signal is input and is converted by a voice recognizer into textual units, which are then handed over to the operation system from which the...

... DESCRIPTION OF DRAWINGS - A procedure for voice recognition via a flow-diagram is represented. (Contains non-English language text...)

Original Publication Data by Authority

Inventor name & address:

... Major, Andreas Ralph, 81677 Munchen, DE ...

... MAJOR, Andreas Ralph

Original Abstracts:

... According to the invention, an interposed voice - recognition application allows letters or commands to be input into any applications running on an operating system. To achieve this, the operating system transfers said letters or commands to the...

^ 11/3, K/5 (Item 5 from file: 350)

DIALOG(R) File 350: Derwent WPI X

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0014022886 - Drawing available

WPI ACC NO: 2004-204650/200420

XRPX Acc No: N2004-162597

Voice recognition involves searching for/recognizing successive instruction words using transition probabilities, recognizing fill words, carrying out command if instruction word fully recognized

Patent Assignee: SIEMENS AG (SI EI)

Inventor: VANDINGER M

Patent Family (4 patents, 30 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 1391877	A1	20040225	EP 200218721	A	20020821	200420 B
EP 1391877	B1	20071010	EP 200218721	A	20020821	200766 E
DE 50211050	G	20071122	DE 50211050	A	20020821	200777 E
			EP 200218721	A	20020821	

ES 2291403 T3 20080301 EP 200218721 A 20020821 200821 E

Priority Applications (no., kind, date): EP 200218721 A 20020821

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 1391877	A1	DE	11	3		
Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI						
FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR						
EP 1391877	B1	DE				
Regional Designated States, Original: DE ES FR GB						
DE 50211050	G	DE			Application	EP 200218721
					Based on OPI patent	EP 1391877
ES 2291403	T3	ES			Application	EP 200218721
					Based on OPI patent	EP 1391877

Voice recognition involves searching for/recognizing successive instruction words using transition probabilities, recognizing fill words, carrying out...

Original Titles:

... Method for speech recognition

...

... Method for speech recognition

Inventor: WANDINGER M

Alerting Abstract ...defined sequence of instruction words (BF1,...) and fill words (FW) between instruction words to a voice recognition device, searching for and recognizing successive instruction words using associated transition probabilities (W), recognizing fill...

USE - For voice recognition.

...

... ADVANTAGE - Developed for natural speech input with increased voice recognition performance compared to conventional methods...

... DESCRIPTION OF DRAWINGS - The drawing shows a schematic representation of an inventive voice recognition method (Drawing includes non-English text)

Original Publication Data by Authority

Inventor name & address:

Wandinger, Michael ...

... Wandinger, Michael

Claims:

... Method for speech recognition - with which a spoken sentence of a user, which comprises a command word sequence made...

... as a number of filler words arranged between the command words, is fed to a speech recognizer, - with which with the aid of the speech recognizer, consecutive command words are sought and recognised on the basis of assigned transition probabilities, - with which filler words are recognised with the aid of the speech recognizer and- with which a correspondingly assigned command is executed in the case of a completely...

* 11/3, K/6 (Item 6 from file: 350)

DIALOG(R) File 350: Derwent WPI X

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0014022716

WPI ACC NO: 2004-204477/200420

XRPX Acc No: N2004-162475

Speech recognition method e.g. for mobile telephone, identifies which spoken variants of same word can be recognized with analysis of recognition difficulty for limiting number of acceptable variants

Patent Assignee: SIEMENS AG (SIEI); STEINMASSL B (STEI-I); STEINMASSL K (STEI-I); SCHNEIDER T (SCHN-I); SCHROER A (SCHR-I); STEINMABL B (STEI-I); STEINMABL G M (STEI-I); STEINMABL K (STEI-I); WANDINGER M (WAND-I)

Inventor: SCHNEIDER T; SCHROER A; STEINMASSL G; STEINMASSL G D; ~~WANDINGER M~~; SCHROER A; STEINMABL B; STEINMABL G M; STEINMABL K

Patent Family (4 patents, 107 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 10304460	B3	20040311	DE 10304460	A	20030204	200420 B
WO 2004070702	A1	20040819	WO 2004EP527	A	20040122	200455 E
EP 1590795	A1	20051102	EP 2004704214	A	20040122	200573 E
			WO 2004EP527	A	20040122	
US 20060143008	A1	20060629	WO 2004EP527	A	20040122	200643 E
			US 2005544596	A	20050804	

Priority Applications (no., kind, date): DE 10304460 A 20030204

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
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DE 10304460	B3	DE	6	0	
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WO 2004070702	A1	DE			
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National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Regional Designated States, Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

EP 1590795	A1	DE
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PCT Application WO 2004EP527

Based on OPI patent WO 2004070702

Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI

FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

US 20060143008	A1	EN
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PCT Application WO 2004EP527

Speech recognition method e.g. for mobile telephone, identifies which spoken variants of same word can be...

Original Titles:

... GENERATION AND DELETION OF PRONUNCIATION VARIATIONS IN ORDER TO REDUCE THE WORD ERROR RATE IN SPEECH RECOGNITION

...

... Generation and deletion of pronunciation variations in order to reduce the word error rate in speech recognition

...

... GENERATION AND DELETION OF PRONUNCIATION VARIATIONS IN ORDER TO REDUCE THE WORD ERROR RATE IN SPEECH RECOGNITION

... Inventor: WANDINGER M

Alerting Abstract ... NOVELTY - The speech recognition method has several variants for a spoken word generated, with registration during a speech recognition process of which spoken variants of the word can be identified and analysis of the recognition...

... a speech recognition device; a computer program product for a speech recognition method

...
... USE - The **speech recognition** method can be used for a **mobile telephone**.

Original Publication Data by Authority

Inventor name & address:
... **Wandinger, Michael, 81829 Munchen, DE** ...
... **WANDINGER, Michael** ...
... **Wandinger, Michael** ...

... **WANDINGER, Michael**

Original Abstracts:

... Disclosed is a **speech recognition** method which is based on a dynamic **extension** of the word models in combination with an evaluation of the pronunciation variations...

... Disclosed is a **speech recognition** method which is based on a dynamic extension of the word models **in combination** with an evaluation of the pronunciation variations...

... Disclosed is a **speech recognition** method which is based on a dynamic extension of the word models in combination with an evaluation of the pronunciation variations.

* 11/3, K/7 (Item 7 from file: 350)
DI ALOG(R) File 350: Derwent WPI X
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0013747646
WPI ACC NO: 2003-846303/200379
XRPX Acc No: N2003-676371
Determination of short text messages using background data held in message templates to simplify the generation of messages
Patent Assignee: SIEMENS AG (SI EI)
Inventor: KUNSTMANN N; STEINMASSL G; **WANDINGER M**
Patent Family (1 patents, 1 countries)
Patent Application
Number Kind Date Number Kind Date Update
DE 10238292 A1 20031106 DE 10238292 A 20020821 200379 B

Priority Applications (no., kind, date): DE 10238292 A 20020821

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
DE 10238292	A1	DE	6	0		

... Inventor: **WANDINGER M**
... data. This is used in message templates and input is spoken and interpreted by a **speech recognition** unit.

Original Publication Data by Authority

Inventor name & address:
... **Wandinger, Michael, 81829 Munchen, DE**

* 11/3, K/8 (Item 8 from file 350) (Note: Current app)

DI ALOG (R) File 350: Derwent WPI X

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0013505945

WPI ACC NO: 2003-598627/200356

XRPX Acc No: N2003-476927

Automatic speech recognizer e.g. for mobile telephone, uses stored vocabulary containing names used for voice control of programs and/or data files

Patent Assignee: MAJOR A R (MAJO-I); SIEMENS AG (SIEI); WANDINGER M (WAND-I)

Inventor: MAJOR A R; WANDINGER M

Patent Family (6 patents, 32 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2003060879	A1	20030724	WO 2003EP5	A	20030102	200356 B
EP 1466318	A1	20041013	EP 2003729416	A	20030102	200467 E
			WO 2003EP5	A	20030102	
US 20050021342	A1	20050127	WO 2003EP5	A	20030102	200509 E
			US 20040716	A	20040716	
EP 1466318	B1	20060830	EP 2003729416	A	20030102	200657 E
			WO 2003EP5	A	20030102	
DE 50304848	G	20061012	DE 50304848	A	20030102	200670 E
			EP 2003729416	A	20030102	
			WO 2003EP5	A	20030102	
ES 2268366	T3	20070316	EP 2003729416	A	20030102	200722 E

Priority Applications (no., kind, date): EP 20021255 A 20020117

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2003060879	A1	DE	15	0	
National Designated States, Original: US					
Regional Designated States, Original: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI SK TR					
EP 1466318	A1	DE			PCT Application WO 2003EP5 Based on OPI patent WO 2003060879
Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
US 20050021342	A1	EN			PCT Application WO 2003EP5
EP 1466318	B1	DE			PCT Application WO 2003EP5 Based on OPI patent WO 2003060879
Regional Designated States, Original: DE ES FR GB IT					
DE 50304848	G	DE			Application EP 2003729416 PCT Application WO 2003EP5 Based on OPI patent EP 1466318 Based on OPI patent WO 2003060879
ES 2268366	T3	ES			Application EP 2003729416 Based on OPI patent EP 1466318

Automatic speech recognizer e.g. for mobile telephone, uses stored vocabulary containing names used for voice control of...

Original Titles:

... LANGUAGE RECOGNIZER AND OPERATING METHOD THEREFOR...

... LANGUAGE RECOGNIZER AND OPERATING METHOD THEREFOR...

... Language recognizer and operating method therefor...

... LANGUAGE RECOGNIZER AND OPERATING METHOD THEREFOR

Inventor: MAJOR A R...

... WANDINGER M

Alerting Abstract ... NOVELTY - The **speech recognizer** has a stored vocabulary of recognizable words in the form of names, used for voice...

...data file, the names of the links providing a first active partial vocabulary for the **speech recognizer**. DESCRIPTION - An INDEPENDENT CLAIM for an operating method for an automatic **speech recognizer** is also included...

...USE - The automatic **speech recognizer** is used for voice control of programs and/or data files, e.g. for a...

Original Publication Data by Authority

Inventor name & address:

MAJOR, Andreas Ralph ...

... WANDINGER, Michael ...

... MAJOR, Andreas Ralph ...

... WANDINGER, Michael ...

... Major, Andreas Ralph ...

... Wandinger, Michael ...

... MAJOR, Andreas Ralph ...

... WANDINGER, Michael

Original Abstracts:

Disclosed is a **language recognizer** with a stored vocabulary of words to be **recognized** for the **language**-based controlling of a plurality of programs and/or other files. A word of said...

...or file, the names of said links forming a first active partial vocabulary of the **language recognizer**.

...

...Disclosed is a **language recognition** apparatus having a storage with a stored vocabulary of words to be **recognized** for the **language**-based controlling of programs and/or other files. A word of the vocabulary is assigned...

...file, and the names of the links form a first active partial vocabulary of the **language recognition** apparatus. Also disclosed is methods of operating the **language recognition** apparatus including providing a **language recognition** apparatus, for example, as described above, and generating a current vocabulary containing at least the names of the links from the file directory when a **voice recognition** program configured to perform **voice recognition** is started...

...Disclosed is a **language recognizer** with a stored vocabulary of words to be **recognized** for the **language**-based controlling of a plurality of programs and/or other files. A word of said...

...or file, the names of said links forming a first active partial vocabulary of the **language recognizer**.

Claims:

... **Voice recognizer** having a stored vocabulary of words that are to be **recognized** for **voice** control of a plurality of programs and/or other files, to each of which is...

...file directory, the names of the links forming a first active partial vocabulary of the **voice recognizer**, characterised in thatthe file directory contains a plurality of sub-directories on at least...

...links forming a first and, where applicable, further hierarchically subordinate active partial vocabularies of the **voice recognizer** and each program or file being assigned from a sub-directory a voice command composed...

...1. A **voice recognizer** having a stored vocabulary of words to be **recognized** for **voice** control of a plurality of programs and/or other files, each of which are assigned...

...file directory, the names of the links forming a first active partial vocabulary of the **voice recognizer**.>

11/3, K/9 (Item 9 from file: 350)

DI ALOG (R) File 350: Derwent WPI X

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0013468888 - Drawing available

WPI ACC NO: 2003-560595/200353

XRPX Acc No: N2003-445609

Method for voice recognition, especially of names, for commercial and private uses, involves phoneme-voice-conversion with acoustic output of obtained phoneme sequence

Patent Assignee: SIEMENS AG (SI EI)

Inventor: KUNSTMANN N; SCHROEER A; STEINMASSL G; **WANDINGER M**

Patent Family (1 patents, 26 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
EP 1302928	A1	20030416	EP 2001124717	A	20011016	200353 B

Priority Applications (no., kind, date): EP 2001124717 A 20011016

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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EP 1302928	A1	DE	13	4		
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Regional Designated States, Original: AL AT BE CH CY DE DK ES FI FR GB GR
IE IT LI LT LU LV MC MK NL PT RO SE SI TR

Method for voice recognition, especially of names, for commercial and private uses, involves phoneme-voice-conversion with acoustic output...

Original Titles:

...Method for **speech recognition**, particularly of names, and **speech recognizer**

...Inventor: **WANDINGER M**

Alerting Abstract ... NOVELTY - A **voice recognition** method, especially for names, has an input phase for establishing a **voice recognition** -vocabulary and includes the steps (a) of text-phoneme conversion of a word inputted as...

...names, for gaining at least one phoneme sequence provisionally assigned to the word in the **voice** recognition vocabulary, followed by (b) phoneme-voice-conversion and acoustic output of the obtained phoneme sequence...

...c) evaluated by assuming the provisional phoneme sequence is a valid

phoneme sequence in the **voice recognition** vocabulary and then either returning to step (a) for getting another provisional phoneme sequence or

DESCRIPTION - An INDEPENDENT CLAIM is given for a **voice - recognition** device for speaker-independent **voice recognition**.

... ADVANTAGE - High level of **voice recognition** accuracy is achieved with relatively low implementation outlay

Original Publication Data by Authority

Inventor name & address:

... **Wandinger, Michael**

17/3, K/1 (Item 1 from file: 347)

DIALOG(R) File 347: JAPI O

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07973391 **Image available**

VOICE CONTROL SYSTEM

PUB. NO.: 2004-086150 [JP 2004086150 A]

PUBLISHED: March 18, 2004 (20040318)

INVENTOR(s): TAKAMI MASAYUKI

NADA TORU

APPLICANT(s): DENSO CORP

APPL. NO.: 2003-109283 [JP 2003109283]

FILED: April 14, 2003 (20030414)

PRIORITY: 2002-189481 [JP 2002189481], JP (Japan), June 28, 2002
(20020628)

VOICE CONTROL SYSTEM

INTL CLASS: **G10L-015/28** ; **G10L-015/00** ; **G10L-015/06** ; **G10L-015/10** ;
H04Q-009/00

ABSTRACT

PROBLEM TO BE SOLVED: To provide a **voice control** system for properly **recognizing** a **speech uttered** by a **user** and controlling a target device by recognizing the user's speech considering the operating state of the target device.

SOLUTION: A **speech recognition** dictionary switching unit 4b selects a **speech recognition** dictionary including only the commands selectable in current operating states of the control target device 2 detected by a device-state detecting unit 4a. When a **speech recognition** engine 3 recognizes a user's **utterance**, it recognizes only the commands included in the **speech recognition dictionary** and does not recognize other commands. Thus, such commands that do not coincide with the...

17/3, K/2 (Item 2 from file: 347)

DIALOG(R) File 347: JAPI O

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07722278 **Image available**

SPEECH RECOGNITION SYSTEM

PUB. NO.: 2003-216179 [JP 2003216179 A]

PUBLISHED: July 30, 2003 (20030730)

INVENTOR(s): ARAKI NOBUMASA
APPLICANT(s): NEC CORP
APPL. NO.: 2002-015705 [JP 200215705]
FILED: January 24, 2002 (20020124)

SPEECH RECOGNITION SYSTEM

INTL CLASS: **G10L-015/18**

ABSTRACT

PROBLEM TO BE SOLVED: To realize a system which can correctly **recognizing** a **command language** even when the **command language** is detected as another speech by uttering one **command language** at intervals.

SOLUTION: The **speech recognition** system is provided with a means 5 for changing a recognition **dictionary** by decomposing the **command language** in a **recognition dictionary** 4 into prescribed units such as units of **word** and syllable and a holding means 6 for holding a recognition results **recognized** by a **speech recognition** means 3. The recognition means 3 **recognizes** the **speech uttered** by a **user** based on the recognition dictionary changed by the changing means 5 and judges whether or not plurality of combinations of recognition results becomes the **command language** registered in the recognition dictionary before change when a plurality of the recognition results are held in the holding means 6. Thus, the **command language** can be correctly recognized even in the case that the **command language** is uttered by being divided into a plurality of speeches such as the case that the **user utters** the **command language** at intervals.

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17/3, K/3 (Item 3 from file: 347)
DIALOG(R) File 347: JAPI O
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07103539 **Image available**
VOICE RESPONDING DEVICE

PUB. NO.: 2001-331196 [JP 2001331196 A]
PUBLISHED: November 30, 2001 (20011130)
INVENTOR(s): IWATA KAZUHI KO
APPLICANT(s): NEC CORP
APPL. NO.: 2000-150035 [JP 2000150035]
FILED: May 22, 2000 (20000522)

INTL CLASS: **G10L-015/28 ; G10L-015/20 ; G10L-015/00 ; G10L-015/22**

ABSTRACT

... BE SOLVED: To discriminate a user as an 'inexperienced' user when hesitation and an unnecessary **word** exist in a response even though the reaction time of the response is same as the one made by an experienced user who is skilled in **operation**.

SOLUTION: A **voice recognition** section 1, which receives voice **uttered** by a **user**, recognizes the order of **uttering** of the **words** and the phrases that are beforehand registered in a **voice recognition dictionary** section 2. An unnecessary **word** detecting section 3 checks whether an unnecessary **word** is included in the recognition result of the section 1 or not. When an unnecessary **word** is included, the positional relationship between the unnecessary **word** and an objective **word** in the recognition result is checked. A skill estimating section 4 estimates the skill of the **operations** of the **voice** responding device of the user

based on the checked result obtained by the section 3...

17/3, K/4 (Item 4 from file: 347)
DIALOG(R) File 347: JAPI O
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06848273 **Image available**
DEVICE AND METHOD FOR INFORMATION PROCESSING AND PROGRAM STORAGE MEDIUM

PUB. NO.: 2001-075773 [JP 2001075773 A]
PUBLISHED: March 23, 2001 (20010323)
INVENTOR(s): KOJIMA KIYONOBU
KATO YASUHIKO
YONEKURA SHUJI
FUJIMURA SATOSHI
SASAI TAKASHI
FUJISAWA NAOKI
OJUNJI
APPLICANT(s): SONY CORP
APPL. NO.: 11-250675 [JP 99250675]
FILED: September 03, 1999 (19990903)

INTL CLASS: G06F-003/16; **G10L-015/00**

ABSTRACT

PROBLEM TO BE SOLVED: To easily operate a program by **recognizing** a **voice** and generating a **word** corresponding to the **voice**, storing a **command** of a specific program corresponding to the **word**, and sending the command corresponding to the generated **word** to the program

SOLUTION: Data corresponding to a voice of a user are inputted and the data in specific forms such as a text corresponding to a **word** that the **user speaks** are generated and supplied to a voice commander 102. A **voice recognition** engine 101 receives the recognized **word** or the data of **grammar** or the like from the voice commander 102 and stores them in a reading KANA (Japanese syllabary) **dictionary** database 111 or a recognized **word** and **grammar** database 112 for the engine. When the **voice commander** 102 is supplied with the data of the **word** or the like corresponding to specific speech that the **user speaks** from the **voice recognition** engine 101 sends a specific command to a still picture photography program 103, a still...

17/3, K/5 (Item 5 from file: 347)
DIALOG(R) File 347: JAPI O
(c) 2008 JPO & JAPI O All rts. reserv.

06778014 **Image available**
CONTROL METHOD OF NETWORK

PUB. NO.: 2001-005489 [JP 2001005489 A]
PUBLISHED: January 12, 2001 (20010112)
INVENTOR(s): RAPP STEFAN
SILKE GORONJII
RALF KONPE
PETER BUCHNER
GIRON FRANCK
HELMUT LUCKE
APPLICANT(s): SONY INTERNATL EUROP GMBH
APPL. NO.: 2000-117217 [JP 2000117217]
FILED: April 13, 2000 (20000413)
PRIORITY: 99107201 [EP 99107201], EP (European Patent Office), April

13, 1999 (19990413)

INTL CLASS: G10L-015/22 ; G10L-015/00 ; G10L-015/28 ; H04N-005/00;
H04Q-009/00

ABSTRACT

PROBLEM TO BE SOLVED: To speedily and flexibly control network devices by converting received and **recognized voice commands** into corresponding user network commands based on all pairs of user network commands included in...

... of first and second devices and corresponding commands L1 and L2 do not include same **vocabulary** elements. Therefore, $L1 \cap L2 = \{\}$ and a received language L, which is merged for interface description, becomes $L = L1 \cup L2$. In other **words**, a general document in a voice device 1 is constructed by combining pairs of commands corresponding to the **vocabulary** elements obtained from the device document, which is described by the **vocabulary** elements of the first device and the command L1, and the device document which is described by the **vocabulary** elements of the second device and the command L2. In other **words**, **user's uttered** commands are converted into **user** network commands based on all pairs of user network commands included in user command interpretation...

17/3, K/6 (Item 6 from file: 347)

DI A LOG (R) File 347: JAPI O

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06614467 **Image available**
TRANSLATING DEVICE AND RECORDING MEDIUM

PUB. NO.: 2000-200275 [JP 2000200275 A]
PUBLISHED: July 18, 2000 (20000718)
INVENTOR(s): KOIZUMI ATSUKO
KAJI HIROYUKI
OBUCHI YASUNARI
KI TAHARA YOSHINORI
APPLICANT(s): HITACHI LTD
APPL. NO.: 11-001669 [JP 991669]
FILED: January 07, 1999 (19990107)

INTL CLASS: G06F-017/28; G10L-013/00 ; G10L-015/00 ; G10L-015/22

ABSTRACT

... of an example sentence retrieval type and an arbitrary sentence input type translation device by **recognizing an input voice**, converting **words** and phrases included in an example sentence template similar to the voice according to the voice, and displaying a translated sentence.

SOLUTION: With a power button 103 pressed, a **program** in a memory is **started** and an initial picture appears on a display screen 101. When a **voice** is **inputted** in this state through a microphone 106, a key **word** **voice recognition** is performed. When a **word** is voiced and inputted at this time, a **word** **voice recognition** by **speech recognition** algorithm such as Hidden Markov Model (HMM) is performed by referring to a **word dictionary** and **word** candidates are displayed on the screen. When a user voices and inputs a key **word**, an example sentence template is retrieved and displayed. When the **user speaks** the example sentence template by replacing its replaceable **words** with other **words**, what example sentence template is used and what replacing **word** is used are recognized and a translated sentence of the input sentence is displayed and ...

17/3, K/7 (Item 7 from file: 347)

Number	Kind	Language	Page	Drawing	Filing	Notes
WO 2004029931	A1	DE	104	23		

National Designated States, Original: CN US

Regional Designated States, Original: AT BE BG CH CY CZ DE DK EE ES FI FR

GB GR HU IE IT LU MC NL PT RO SE SI SK TR

Voice recognition **device has dictionary expansion unit for adding sound unit sequence formed by imaging unit, unit...**

Original Titles:

... **VOICE RECOGNITION DEVICE, CONTROL DEVICE AND METHOD FOR COMPUTER-ASSISTED COMPLETION OF AN ELECTRONIC DICTIONARY FOR A VOICE RECOGNITION DEVICE**

Alerting Abstract ... NOVELTY - The device has a unit for speaker-independent **voice recognition**, an electronic **dictionary of words** for speaker-independent **voice recognition**, an imaging unit for forming spoken voice signals on a sequence of sound units, a **dictionary expansion unit for adding a sound unit sequence formed by the imaging unit and a...**

DESCRIPTION - The **voice recognition device** has a **voice recognition unit for speaker-independent voice recognition**, an electronic **dictionary of words** for speaker-independent **voice recognition**, a **voice signal imaging unit for forming spoken voice signals on a sequence of sound units**, a **dictionary expansion unit for adding a sequence of sound units formed by the imaging unit and...**

... a controller for controlling a technical system **with an inventive voice recognition device a telecommunications device with an inventive controller and a method of computer-aided expansion of an electronic dictionary for a voice recognition unit.**

...

... USE - For **voice recognition**.

...

... ADVANTAGE - Guarantees speaker-dependent and speaker-independent **voice recognition** in a simple manner.

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G10L-0015/06 ...

... G10L-0015/18 ...

... G10L-0015/22

G10L-0015/00 ...

Original Publication Data by Authority

Original Abstracts:

... the invention, a sequence of sound units is formed from at least one voice signal **uttered** by a **user**, said sequence representing said voice **signal**. The sequence of sound units is formed in such a way that they can be **processed** by a **voice recognition unit** as part of a speaker independent **voice recognition process**. The sequence of sound signals thus **formed is added** to an electronic **dictionary** which contains **entries** for speaker independent **voice recognition**.

^ 17/3, K/9 (Item 2 from file: 350)

DIALOG(R) File 350: Derwent WPI X

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0013566602 - Drawing available

WPI ACC NO: 2003-660878/200362

XRPX Acc No: N2003-527162

Speech recognition method for use in e.g. voice-dialing application, involves dynamically updating stored recognition vocabulary for subsequent utterances, based on comparison of received utterance and recognition vocabulary

Patent Assignee: GUPTA S K (GUPT-I)

Inventor: GUPTA S K

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20030120493	A1	20030626	US 200127580	A	20011221	200362 B

Priority Applications (no., kind, date): US 200127580 A 20011221

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030120493	A1	EN	8	2	

Speech recognition method for use in e.g. voice-dialing application, involves dynamically updating stored recognition vocabulary for subsequent utterances, based on comparison of received utterance and recognition vocabulary

Alerting Abstract ... NOVELTY - Received utterance is compared with stored recognition vocabulary representing currently active vocabulary. The stored recognition vocabulary is dynamically updated for subsequent utterances, based on the comparison result... speech recognition system; method of customizing recognition vocabulary...

... USE - For voice -dialing and command / control applications in client device.

...

... ADVANTAGE - Allows any upgrade to the voice recognition features on the client device, without requiring equipment change. Provides the ability to dynamically change the current active vocabulary and to...

... DESCRIPTION OF DRAWINGS - The figure shows the speech recognition system

Class Codes

International Classification (Main): G10L-021/00

(Additional / Secondary): G10L-011/00

Original Publication Data by Authority

Original Abstracts:

... system includes a client device in communication with a server. The client device receives an input speech utterance in a voice dialog via an input device from a user of the system. The client device includes a speech recognition engine that compares the received input speech to stored recognition vocabulary representing a currently active vocabulary. The speech recognition engine recognizes the received utterance, and an application dynamically updates the recognition vocabulary. The dynamic update of the active vocabulary can also be initiated from the server, depending upon the client application being run at the client device. The server generates a result that is sent to the client device via a suitable communication path. The client application also provides the ability to customize voice-activated commands in the recognition vocabulary related to common client device functions, by using a speaker-training feature of the

speech recognition engine.

Claims:

What is claimed is: **1**. A method of **recognizing speech** so as to modify a currently active **vocabulary**, **comprising**: receiving an **utterance**; comparing said received **utterance** to a stored recognition **vocabulary** representing a currently active **vocabulary**; and dynamically **updating** the stored recognition **vocabulary** for subsequent received **utterances** based on said comparison.

17/3, K/10 (Item 3 from file: 350)

DI ALOG (R) File 350: Derwent WPI X

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0013191855 - Drawing available

WPI AOC NO: 2003-275516/200327

XRPX Acc No: N2003-218762

Voice recognition **system for wireless terminal, generates digital signal from received analog speech signal, and updates voice recognition templates in database based on digital signal**

Patent Assignee: CHANG C (CHAN-I); MALAYATH N (MALA-I); QUALCOMM INC (QUAL-N)

Inventor: CHANG C; MALAYATH N

Patent Family (4 patents, 99 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 20020178004	A1	20021128	US 2001864059	A	20010523	200327 B
WO 2002095729	A1	20021128	WO 2002US16104	A	20020521	200327 E
TW 557443	A	20031011	TW 2002110885	A	20020523	200424 E
AU 2002305661	A1	20021203	AU 2002305661	A	20020521	200452 E

Priority Applications (no., kind, date): US 2001864059 A 20010523

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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US 20020178004	A1	EN	15	8		
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WO 2002095729	A1	EN				
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National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Regional Designated States, Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

TW 557443	A	ZH
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AU 2002305661	A1	EN	Based on CPI patent	WO 2002095729
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Voice recognition **system for wireless terminal, generates digital signal from received analog speech signal, and updates voice recognition templates in database based on digital signal**

Original Titles:

METHOD AND APPARATUS FOR ADAPTING VOICE RECOGNITION TEMPLATES...

... Method and apparatus for voice recognition

... METHOD AND APPARATUS FOR ADAPTING VOICE RECOGNITION TEMPLATES

Alerting Abstract ... NOVELTY - A voice recognition system (20) comprises a **speech processor** (24) to receive an analog speech signal and to generate a digital signal. A storage unit (30) stores the digital signal and updates the **voice recognition** templates in a database (22) based on the digital signal... method for **voice recognition in wireless** communication device; wireless apparatus; and handwriting

recognition system...

...USE - For **speech recognition** wireless terminal, for accessing information services **such as** e-mail, stock quotes, weather updates, travel advisories, company news, movie schedules, local news, sports...

...DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the **voice recognition** system

...

...20 **voice recognition** system

...

...24 **speech processor**

Class Codes

International Classification (Main): **G10L-015/00** ...

... **G10L-015/06** ...

... **G10L-017/00**

Original Publication Data by Authority

Original Abstracts:

A **voice recognition** system applies **user inputs** to adapt **speaker - dependent voice recognition templates** using **implicit user confirmation** during a transaction. In one embodiment, the user confirms the **vocabulary word** to complete **at transaction**, such as **entry** of a password, and in response a template database is updated. User **utterances** are used to **generate** test templates that are compared to the template database. Scores are generated for each test...

...A **voice recognition** system applies **user inputs** to adapt **speaker - dependent voice recognition templates** using **implicit user confirmation during a transaction**. In one embodiment, the user confirms the **vocabulary word** to complete **at transaction**, such as **entry of a password**, and in response a template **database** is updated. User **utterances** are used to generate test templates that are **compared** to the template database. Scores are generated for each test template and a winner selected...

Claims:

What is claimed is: **1**. A **voice recognition** system comprising: a **speech processor operative to receive an analog speech signal** and generate a **digital signal**; a database **operative to store voice recognition templates**; and a memory storage unit coupled to **the speech processor and the database**, the memory storage unit operative to store the digital signal, **the memory storage unit operative to update the voice recognition templates based on the digital signal and an implicit user confirmation**.

17/3, K/11 (Item 4 from file: 350)

DI ALOG (R) File 350: Derwent WPI X

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0012847367 - Drawing available

WPI ACC NO: 2002-705880/200276

XRPX Acc No: N2002-556465

Continuous audio stream processing method for speech recognition systems, involves performing speaker recognition upon speaker change detection, and transcribing portion of audio stream if predetermined

speaker is recognized

Patent Assignee: IBM CORP (IBM)

Inventor: FRANK J; KRIECHBAUM W; STENZEL G

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20020091517	A1	20020711	US 2001997957	A	20011130	200276 B

Priority Applications (no., kind, date): EP 2000127335 A 20001130

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020091517	A1	EN	9	4	

Continuous audio stream processing method for speech recognition systems, involves performing speaker recognition upon speaker change detection, and transcribing portion of audio stream..

Alerting Abstract ...Continuous audio stream processing apparatus; **Speech recognition or voice control system**; Data processing program for continuous audio stream processing; and Computer program product for continuous audio stream processing...

...USE - For processing continuous audio streams in **speech recognition or voice control system** (claimed) for handling commercial or business transaction related telephone conversations, automatic transaction systems in tele shopping, tele banking, multi-user **speech recognition** and **voice activation control** systems for personal meetings for use in **vehicles such as aircraft cockpits** and for call center environments...

Class Codes

International Classification (Main): **G10L-015/00**

Original Publication Data by Authority

Original Abstracts:

Disclosed are a method and apparatus for processing a continuous audio **stream** containing human **speech** in order to locate a particular speech-based transaction in the audio stream applying both known speaker **recognition** and **speech recognition techniques**. Hereby **it is** enabled that only the **utterances** of a particular predetermined speaker are transcribed thus providing an index and a summary of the underlying dialogue(s)...

...a second scenario, two or more speakers located in one room are using a multi- **user speech recognition** system (SRS). For each **user** there exists, a different **speaker model and optionally a different dictionary or vocabulary of words** already known or trained by the **speech or voice recognition** system. In such an environment, the invention allows to switch **between different dictionaries when** a first user has stopped **utterance** and a second user is going to start his **utterance**.

Claims:

1 A method of processing a continuous audio **stream** containing human **speech** related to at least one particular transaction, comprising the steps of: digitizing the continuous audio...

17/3, K/12 (Item 5 from file: 350)

DIALOG(R) File 350: Derwent WPI X

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0012839181 - Drawing available

WPI ACC NO: 2002-697555/200275

XRPX Acc No: N2002-550021

Automated speech recognition method in computer system involves accessing voice-mail, caller-identity features corresponding to spoken utterance, if spoken utterance has specific grammar

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCENT)

Inventor: AUGUST K G

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 20020094067	A1	20020718	US 2001764708	A	20010118	200275 B

Priority Applications (no., kind, date): US 2001764708 A 20010118

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020094067	A1	EN	32	14	

Automated speech recognition method in computer system involves accessing voice-mail, caller-identity features corresponding to spoken utterance, if spoken utterance has specific grammar

Original Titles:

Network provided information using text-to- **speech** and **speech recognition** and text or speech activated network control sequences for complimentary feature access

Alerting Abstract ...state database comprising tree structure with nodes representing particular system state is maintained. A spoken **utterance** of a **subscriber** at a particular system **state** is recognized by comparing with **grammar** for respective node corresponding to the system state. The voice-mail, caller-identity features corresponding to spoken **utterance** are accessed, if spoken **utterance** has specific **grammar** ...USE - For **recognizing speech** of user such as verbal information verification, **word** pronunciation in computer system mobile telephone, personal digital assistant, telematics for vehicle, earbud...

... ADVANTAGE - The system can compare the spoken **utterance** with limited number of **words** available for system state, thereby simplifying **speech recognition** task. Enhances functionality of the **speech recognition** by using subscription-type service which provides voice model to the user. The access restriction prevents the user from accidentally triggering **voice command** system while engaged in a conversation and increases amount of grammar to be used at...

... DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the **speech recognition** system

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G10L- 0013/ 04 ...

... G10L- 0015/ 26

G10L- 0013/ 00 ...

... G10L- 0015/ 00

Original Publication Data by Authority

Original Abstracts:

...permits the subscriber to manage incoming and existing calls through

available features accessed using spoken **utterances**. A **speech processing unit** coupled to the system interprets a subscriber's spoken **utterances** without requiring the **subscriber** to train the system to recognize his or her **voice**. The interpretation of spoken **utterances** is enabled by a system state database that is maintained at the **speech processing unit** and **comprises** a database of the possible system states, including possible call flows for a call, and a database associated with the system state database comprising context-**specific** grammar that a **subscriber** may recite at respective points in the call flow. The **speech processing unit** may **also convert** message signals from the network to speech which is read to the subscriber using a...

...to speech translator. The network can identify the voice or subscriber voice, or language used **and will thereafter recognize** all further commands using specific grammar **for that language** as well as perform text-to-speech conversion using the identified language. Use of the...

Claims:

...permitting a subscriber to perform an action available on a communications network using a spoken **utterance**, comprising: maintaining a system state database comprising a **tree** structure having a plurality of nodes, each respective node of said plurality of nodes representing...

...of a plurality of possible system states and being associated with a predetermined node-specific **grammar** for the respective node; awaiting from the subscriber a spoken **utterance** at the particular system state; recognizing the spoken **utterance** by comparing the **spoken utterance** to the predetermined **grammar** for the respective node for **correspondence** to the particular system **state**; and performing an **action** at the network represented by the spoken **utterance** if the spoken **utterance** has been recognized as the predetermined **grammar** for the respective node.

17/3, K/13 (Item 6 from file: 350)

DI ALOG (R) File 350: Derwent WPI X

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0010974490 - Drawing available

WPI ACC NO: 2001-598427/200168

XRPX Acc No: N2001-446299

Designing voice - activated **user interface used in a computer system involves jointly optimizing selected vocabulary set and prompting syntax based on second testing of subjects from target community**

Patent Assignee: COMVERSE INC (COMV-N); COMVERSE NETWORK SYSTEMS INC (COMV-N)

Inventor: YUSCHI K M J

Patent Family (12 patents, 28 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 1107229	A2	20010613	EP 2000310830	A	20001206	200168 B
US 20020198722	A1	20021226	US 1999456922	A	19991207	200304 E
			US 2002216812	A	20020813	
US 20030004719	A1	20030102	US 1999456922	A	19991207	200305 E
			US 2002216189	A	20020812	
US 20030004730	A1	20030102	US 1999456922	A	19991207	200305 E
			US 2002216811	A	20020813	
US 20030004731	A1	20030102	US 1999456922	A	19991207	200305 E
			US 2002216839	A	20020813	
US 20030046086	A1	20030306	US 1999456922	A	19991207	200320 E
			US 2002216190	A	20020812	
US 20030046088	A1	20030306	US 1999456922	A	19991207	200320 E
			US 2002216786	A	20020813	
US 6526382	B1	20030225	US 1999456922	A	19991207	200323 E
US 6598022	B2	20030722	US 1999456922	A	19991207	200354 E
			US 2002216786	A	20020813	

IL 140146	A	20060221	IL 140146	A	20001207	200634	E
IL 170220	A	20060221	IL 71200	A	20001207	200634	E
			IL 170220	A	20001207		
US 7139706	B2	20061121	US 1999456922	A	19991207	200677	E
			US 2002216189	A	20020812		

Priority Applications (no., kind, date): US 1999456922 A 19991207; US 2002216189 A 20020812; US 2002216190 A 20020812; US 2002216786 A 20020813; US 2002216811 A 20020813; US 2002216812 A 20020813; US 2002216839 A 20020813

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 1107229	A2	EN	36	13		
Regional Designated States, Original: AL AT BE CH CY DE DK ES FI FR GB GR						
IE IT LI LT LU LV MC MK NL PT RO SE SI TR						
US 20020198722	A1	EN			Division of application	US 1999456922
US 20030004719	A1	EN			Division of application	US 1999456922
US 20030004730	A1	EN			Division of application	US 1999456922
US 20030004731	A1	EN			Division of application	US 1999456922
US 20030046086	A1	EN			Division of application	US 1999456922
US 20030046088	A1	EN			Division of application	US 1999456922
US 6598022	B2	EN			Division of application	US 1999456922
IL 140146	A	EN				
IL 170220	A	EN			Division of application	IL 71200
					Division of patent	IL 140146
US 7139706	B2	EN			Division of application	US 1999456922
					Division of patent	US 6526382

Designing voice - activated user interface used in a computer system involves jointly optimizing selected vocabulary set and prompting...

Original Titles:

Language-oriented user interfaces for **voice activated** services...

... Language-oriented user interfaces for **voice activated** services...

... Language-oriented user interfaces for **voice activated** services...

... Language-oriented user interfaces for **voice activated** services...

... Language-oriented user interfaces for **voice activated** services...

... Language-oriented user interfaces for **voice activated** services...

... System and method of developing automatic **speech** recognition vocabulary for **voice activated** services

Alerting Abstract ...the computer system using the **voice - activated** user interface; and the computer readable medium encoded with the **program** for **voice - activated** user interface...

... ADVANTAGE - Designs language-oriented user interfaces for **voice activated** services. Collects responses to task-oriented questions eliciting commonly used names for tasks and task...

...temporal syntax. Changes command and syntax parameter of user interface based on results of testing **user** interface with **speakers** of target language. Detects errors occurring in dialogue between user and user interface based on...

...DESCRIPTION OF DRAWINGS - The figure shows an overview flow diagram of designing **voice - activated** user interface.

Class Codes

International Classification (Main): **G10L-015/06**

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G10L-0015/06 ...

... **G10L-0015/06** ...

... **G10L-0015/18** ...

... **G10L-0015/22**

G10L-0015/00 ...

... **G10L-0015/00**

Original Publication Data by Authority

Original Abstracts:

A comprehensive system is provided for designing a **voice activated** user interface (VA UI) having a semantic and syntactic structure adapted to the culture and...

...is general across languages and encompasses universal variables of language and culture. Also provided are **voice activated** user interfaces with semantic and syntactic structures so adapted, as well as a prompting grammar...

...A comprehensive system is provided for designing a **voice activated** user interface (VA UI) having a semantic and syntactic structure adapted to the culture and...

...is general across languages and encompasses universal variables of language and culture. Also provided are **voice activated** user interfaces with semantic and syntactic structures so adapted, as well as a prompting grammar...

...A comprehensive system is provided for designing a **voice activated** user interface (VA UI) having a semantic and syntactic structure adapted to the culture and...

...is general across languages and encompasses universal variables of language and culture. Also provided are **voice activated** user interfaces with semantic and syntactic structures so adapted, as well as a prompting grammar...

...A comprehensive system is provided for designing a **voice activated** user interface (VA UI) having a semantic and syntactic structure adapted to the culture and...

...is general across languages and encompasses universal variables of language and culture. Also provided are **voice activated** user interfaces with semantic and syntactic structures so adapted, as well as a prompting grammar...

...A comprehensive system is provided for designing a **voice activated** user interface (VA UI) having a semantic and syntactic structure adapted to the culture and...

...is general across languages and encompasses universal variables of language and culture. Also provided are **voice activated** user interfaces with semantic and syntactic structures so adapted, as well as a prompting grammar...

...A comprehensive system is provided for designing a **voice activated** user interface (VA UI) having a semantic and syntactic structure adapted to the culture and...

...is general across languages and encompasses universal variables of language and culture. Also provided are **voice activated** user interfaces with semantic and syntactic structures so adapted, as well as a prompting grammarA comprehensive system is provided for designing a **voice activated** user interface (VA UI) having a semantic and syntactic structure adapted to the culture and...

...is general across languages and encompasses universal variables of language and culture. Also provided are **voice activated** user interfaces with semantic and syntactic structures so adapted, as well as a prompting grammar...

...A comprehensive system is provided for designing a **voice activated** user interface (VA UI) having a semantic and syntactic structure adapted to the culture and...

...is general across languages and encompasses universal variables of language and culture. Also provided are **voice activated** user interfaces with semantic and syntactic structures so adapted, as well as a prompting grammar...

...A comprehensive system is provided for designing a **voice activated** user interface (VA UI) having a semantic and syntactic structure adapted to the culture and...

...is general across languages and encompasses universal variables of language and culture. Also provided are **voice activated** user interfaces. Specifically, a prompting syntax is defined with syntax parameters (such as pace, pause...

...A comprehensive system is provided for designing a **voice activated** user interface (VA UI) having a semantic and syntactic structure adapted to the culture and...

...hypothetical task to be performed; asks each of the at least one respondent for a **word** that the respondent would use to command the hypothetical task to be performed; receives, from each of the at least one respondent, a command **word**; develops a list of command **words** from the received command **word**; and rejects the received command **word**, if the received command **word** is acoustically similar to another **word** in the list of command **words**. The approach is general across languages and encompasses universal variables of language and culture. Also provided are prompting **grammar** and error handling methods adapted to such user interfaces.

Claims:

A method for designing a **voice activated** user interface, the method comprising: separately selecting a vocabulary set and a prompting syntax for...

...What is claimed is: 1. A method for optimizing a **voice activated** user interface, the method comprising: configuring the user interface with a **vocabulary** of command **words** including at least one **word** indicating a corresponding task and selected from plural **words** for the task based on frequency of use; and changing at least one of a command

and a syntax parameter of the user interface based on results of testing the **user** interface with **speakers** of a target language...

...What is claimed is: 1. A method for developing an automatic **speech recognition** (ASR) vocabulary for a **voice activated** service, the method comprising: a. posing, to at least one respondent, a hypothetical task to be performed; b. asking each of the at least one respondent for a **word** that the respondent would use to command the hypothetical task to be performed; c. receiving, from each of the at least one respondent, a command **word**; d. developing a list of command **words** from the received command **word**; e. rejecting the received command **word**, if the received command **word** is acoustically similar to another **word** in the list of command **words**.

...

...What is claimed is: 1. A method for adaptive error handling in a voice activated user interface, the method comprising: detecting that an error has occurred in a dialogue between...

...What is claimed is: 1. A method for prompting a user of a **voice activated** user interface, the method comprising: pausing for a first predetermined interval after presentation of a label identifying a current menu **state** of the **user** interface; and presenting to the user a command option for the current menu state only...

...What is claimed is: 1. A method for selecting a vocabulary set for a **voice activated** user interface, the method comprising: collecting responses to task-oriented questions eliciting commonly used names method for designing a **voice activated** user interface, the method comprising: separately selecting a vocabulary set and a prompting syntax for...

...What is claimed is: 1. A method of developing an automatic **speech recognition** (ASR) **vocabulary** for a **voice activated** service, comprising: a. posing, to at least one respondent, a hypothetical task to be performed; b. asking each of the at least one respondent for a **word** that the respondent would use to command the hypothetical task to be performed; c. receiving, from each of the at least one respondent, a command **word**; d. developing a list of command **words** from the received command **word**; e. rejecting the received command **word**, if the received command **word** is acoustically similar to another **word** in the list of command **words**; and f. selecting for the list of command **words** a command **word** that is both semantically equivalent to the received command **word** and relatively frequently received, when the received command **word** is rejected.

17/3, K/14 (Item 7 from file: 350)
 DIALOG(R) File 350: Derwent WPI X
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0010955636 - Drawing available
 WPI ACC NO: 2001-578743/200165
 XRPX Acc No: N2001-430658

Function choice providing system for interactive voice mail audio text, has device specific variable state transition model which groups functions into function choice based on user device and logical grouping information

Patent Assignee: INTERVOICE LP (INTE-N)

Inventor: POLCYN MJ

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 6246989	B1	20010612	US 1997899952	A	19970724	200165 B

Priority Applications (no., kind, date): US 1997899952 A 19970724

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6246989	B1	EN	11	7	

Alerting Abstract ...Method for providing functions to the user; Variable **state** transaction **system**; Variable **state** transaction **system** for arranging functions **for** presentation to an **user** based on user's device ...

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G10L- 0015/ 22 ...

... G10L- 0015/ 26

G10L- 0015/ 00 ...

Original Publication Data by Authority

Original Abstracts:

...only a small number of function choices. The system uses a data base having key **words** that describe each function, and permutation lists that have expanded lists of phrases that are synonymous with the key **words**. The system also may use a thesaurus or **lexicon** application to expand the recognition of key **words**. The system uses a dialogue engine to compare the **commands** (e.g., **voice input**) from the user with the key **words** and permutation lists to identify the requested function.

17/ 3, K/ 15 (Item 8 from file: 350)

DI ALOG (R) File 350: Derwent WPI X

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0010920867 - Drawing available

WPI ACC NO: 2001-542602/200161

XRPX Acc No: N2001-403359

Speech-activated control method for electrical device - has input of reference vocabulary by each user used by speech recognition device for allowing speech-controlled operation by several users

Patent Assignee: AUBAUER R (AUBA-I); SIEMENS AG (SIEI)

Inventor: AUBAUER R

Patent Family (6 patents, 29 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
DE 10011178	A1	20010913	DE 10011178	A	20000308	200161 B
WO 2001067435	A1	20010913	WO 2001DE891	A	20010308	200161 E
EP 1261964	A1	20021204	EP 2001921173	A	20010308	200280 E
			WO 2001DE891	A	20010308	
US 20030040915	A1	20030227	WO 2001DE891	A	20010308	200318 E
			US 2002220906	A	20020906	
CN 1416560	A	20030507	CN 2001806169	A	20010308	200353 E
CN 1217314	C	20050831	CN 2001806169	A	20010308	200647 E

Priority Applications (no., kind, date): DE 10011178 A 20000308

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
DE 10011178	A1	DE	18	8	
WO 2001067435	A1	DE			

National Designated States, Original: BR CA CN HU JP KR PL RU US

Regional Designated States, Original: AT BE CH CY DE DK ES FI FR GB GR IE
IT LU MC NL PT SE TR
EP 1261964 A1 DE PCT Application WO 2001DE891
Based on OPI patent WO 2001067435

Regional Designated States, Original: AT BE CH CY DE DK ES FI FR GB GR IE
IT LI LU MC NL PT SE TR
US 20030040915 A1 EN PCT Application WO 2001DE891

...has input of reference vocabulary by each user used by speech
recognition device for allowing speech-controlled operation by several
users

Original Titles:

...METHOD FOR THE VOICE - CONTROLLED INITIATION OF ACTIONS BY MEANS OF A
LIMITED CIRCLE OF USERS, WHEREBY SAID ACTIONS CAN...

...Method for the voice - controlled initiation of actions by means of a
limited circle of users, whereby said actions can...

...METHOD FOR THE VOICE - CONTROLLED INITIATION OF ACTIONS BY MEANS OF A
LIMITED CIRCLE OF USERS, WHEREBY SAID ACTIONS CAN...

Alerting Abstract ...method uses a training phase for entering a limited
number of spoken commands in a **speech recognition** device by the user,
each corresponding to a required action, with subsequent analysis of the...

...The **speech recognition** device can be used for operation of the
device by more than one user by...

Class Codes

International Classification (Main): **G10L-015/06**

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G10L-0015/06 ...

G10L-0015/00 ...

Original Publication Data by Authority

Original Abstracts:

...voice is detected on the basis of a speaker-dependent voice detection
system in a **user**-independent **manner** and without **user** identification.
The reference voice patterns of all users pertaining to a voice detection
system are allocated to detection voice expressions, e.g. the **words** of a
vocabulary, of the users pertaining to the circle of **users**, whereby
said patterns are required for detection...

...is to control initiation of actions in a user-independent manner and by
means of **voice** and users pertaining to a limited circle of users of an
appliance, whereby said actions can...

...basis of a speaker-dependent voice detection system in a
user-independent manner and without **user** identification. **The** reference
voice patterns of all users pertaining to a voice detection system are
allocated to detection voice expressions, e.g. the **words** of a **vocabulary**
, of the users pertaining to the circle of users, whereby **said** patterns
are **required** for detection...

...be carried out in the appliance. The voice is detected on the basis of a
speaker - dependent voice detection system in a user-independent manner
and without user identification. The reference voice patterns of all **users**
pertaining to a **voice** detection system are allocated to detection voice
expressions, e.g. the **words** of a **vocabulary**, of the users pertaining to
the circle of users, whereby said patterns are required for detection.

Claims:

...Benutzer zu mindestens einer Aktion jeweils mindestens eine der Aktion jeweils zuzuordnenden Referenzsprachausserung (reference speech **utterance**) in das Gerat eingibt, 2. **aus** der Referenzsprachausserung durch Sprachanalyse ein Referenzsprachmuster erzeugt wird, wobei bei mehreren Referenzsprachausserungen das Referenzsprachmuster erzeugt...

...1. Method for the **voice - controlled** initiation of actions by means of a limited circle of users, whereby said actions can be carried out in an appliance, comprising the following features:(a) On the basis of **the voice** pertaining to at least one user of the user circle of the device, the device...

...the users, with respect to at least one action, enters at least one reference speech **utterance** into the device, whereby said reference speech **utterance** is respectively allocated to the action,(a2) a reference speech pattern is generated from the reference speech **utterance** by speech analysis, whereby the reference speech pattern, given a plurality of reference speech **utterances**, is generated **when** the reference speech **utterances** are similar,(a3) the reference speech pattern is allocated to the action,(a4) the reference **speech** pattern is unconditionally stored with the allocated action or is only stored when the **reference** speech pattern is not similar to **the** already stored other reference speech patterns which are allocated to other actions,(b) the respective user, in a **voice recognition** phase, enters a **recognition speech utterance** into the device for the operating mode of the device selected by the user,(c) a **recognition speech** pattern is **generated** from the **recognition speech utterance** by speech analysis,(d) the **recognition voice** pattern is compared to at least a part of the **reference speech patterns**, which are stored for the selected operating mode, such that the similarity between the respective reference **speech** pattern and **the recognition speech** pattern is detected and such that a similarity rule of precedence of the **stored reference speech** patterns is formed on the basis of the detected similarity values,(e) the **voice - controlled** initiation of the action to be carried out in the device by the user--whereby said **voice - controlled** initiation is caused by the **recognition voice utterance**--is admissible when the **recognition speech** pattern is similar to the reference speech pattern which is first in the similarity rule of precedence or **when the recognition speech** pattern is similar to the reference speech pattern which is first in the similarity **rule** of precedence and when said **recognition speech pattern** is not similar to the **reference speech** pattern situated at the n-th position in the similarity rule of precedence, whereby another action is allocated to the **reference speech** pattern situated at the n-th position in the similarity rule of precedence than to the action that is allocated **to the reference speech** pattern which is first in the similarity rule of precedence and whereby the reference speech...

...pattern situated first in the similarity rule of precedence, is only carried out when the **recognition voice utterance**, in a **speech recognition** phase, entered by the user into the device for the operating mode of the device

17/3, K/16 (Item 9 from file: 350)
DI ALOG(R) File 350: Derwent WPI X
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0010322653 - Drawing available
WPI ACC NO: 2000-637172/200061
Related WPI Acc No: 1995-240307; 1999-070054; 1999-403770; 1999-404055;
1999-404056; 1999-456293; 1999-600343; 2000-052130; 2000-586103;
2000-636971
XRPX Acc No: N2000-472470

Computerized speech recognition procedure involves creating vocabulary states, associated with program unit by pattern matching of acoustic word signals for each user input

Patent Assignee: DRAGON SYSTEMS INC (DRAG-N)

Inventor: HEITMAN P S; MCGRATH F J; PARKE J W; SQUIRES S D

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 6092043	A	20000718	US 1992976413	A	19921113	200061 B
			US 1995382752	A	19950201	
			US 1997882920	A	19970626	

Priority Applications (no., kind, date): US 1992976413 A 19921113; US 1995382752 A 19950201; US 1997882920 A 19970626

Patent Details

Number	Kind	Lang	Pg	Dwg	Filing Notes
US 6092043	A	EN	127	81	G-I-P of application US 1992976413 Division of application US 1995382752 G-I-P of patent US 5428707

Computerized speech recognition procedure involves creating vocabulary states, associated with program unit by pattern matching of acoustic word signals for each user input

Original Titles:

Apparatuses and method for training and operating **speech recognition** systems.

Alerting Abstract ... NOVELTY - The **vocabulary** states with **words** are created for program unit when acoustic **word** signals are input by **user**. Active **vocabulary states** are set based on pattern matching to determine probable **vocabulary** states for **word** signals. When **vocabulary** states having input focus for currently running program exists, they are added to active set or else new set of **vocabulary** states are created. USE - For operation of systems that recognize acoustic **word** signal...

... ADVANTAGE - Since **vocabulary** states are recognized for acoustic signals, **word** recognition is convenient and easy...

... DESCRIPTION OF DRAWINGS - The figure shows the device used for **speech recognition**.

Title Terms.../Index Terms/Additional Words: **WORD**;

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

... G10L-0015/06 ...

... G10L-0015/18 ...

... G10L-0015/22 ...

... G10L-0015/26

... G10L-0015/00

Original Publication Data by Authority

Original Abstracts:

A **word** recognition system can: respond to the input of a character string from a user by limiting the **words** it will recognize to **words** having a related, but not necessarily the same, string, score signals generated after a user has been prompted to generate a given **word** against **words** other than the prompted **word** to determine if the signal should be used to

train the prompted **word**; vary the number of signals a user is prompted to generate to train a given **word** as a function of how well the training signals score against each other or prior models for the prompted **word**; create a new acoustic model of a phrase by concatenating prior acoustic models of the **words** in the phrase; obtain information from another program running on the same computer, such as...

...the context of text being entered into it, and use that information to vary which **words** it can recognize; determine which program unit, such as an application program or dialog box, currently has input focus on its computer and create a **vocabulary** state associated with that program unit into which **vocabulary words** which will be made active when that program group has the focus can be put...

...and alter the instructions it executes in response; test if its ability to respond to **voice input** has been shut off without user confirmation, and, if so, turn that ability back on...

...be turned off; store both a first and a second set of models for individual **vocabulary words** and enable a user to selectively cause the recognizer to disregard the second set of models for a selected **word**; and/or score a signal representing a given **word** against models for that **word** from different **word** model sets to select which model should be used for future recognition.

Claims:

A computerized method of performing **word** recognition designed to operate on a computer system which can run multiple **program units** at one time and which can selectively give one of those program units an input focus...

...to receive certain user input, said computerized method comprising the steps of: receiving user generated **word** signals representing words to be recognized; storing a plurality of vocabulary words, and storing a plurality of **vocabulary** states with which one or **more vocabulary words** can be associated; enabling a user to selectively add one or more **vocabulary words** to a **vocabulary** state; defining a set of one or **more vocabulary** states which are active at a given time; associating each of one or more of said **vocabulary** states with a corresponding ones of said program unit; performing pattern matching upon the **word** signals to select which one or more of a plurality of **vocabulary words** associated with the set of currently active **vocabulary** states most probably correspond to each such **word** signal; determining which program unit, if any, running on said computer system currently has the input focus; and determining whether or not the program unit having the input focus has a **vocabulary** state associated with it, and if so adding that **vocabulary** state to the set of active vocabulary states, and if not creating a new vocabulary...

17/3, K/17 (Item 10 from file: 350)

DI ALOG(R) File 350: Derwent WPI X

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0009989435 - Drawing available

WPI AOC NO: 2000-292616/200025

XRPX Acc No: N2000-219473

Speech recognition system for accurate voice dialling in mobile telephone

Patent Assignee: TELEFONAKTI EBOLAGET ERI CSSON L M (TELF)

Inventor: MEKURIA F; MEKURLA F

Patent Family (13 patents, 87 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
WO 2000014729	A2	20000316	WO 1999SE1515	A	19990902	200025 B

SE 199802990	A	20000305	SE 19982990	A	19980904	200025	E
AU 199958944	A	20000327	AU 199958944	A	19990902	200032	E
BR 199913408	A	20010522	BR 199913408	A	19990902	200132	E
			WO 1999SE1515	A	19990902		
EP 1110207	A2	20010627	EP 1999946549	A	19990902	200137	E
			WO 1999SE1515	A	19990902		
CN 1317134	A	20011010	CN 1999810589	A	19990902	200207	E
KR 2001079734	A	20010822	KR 2001702784	A	20010302	200213	E
JP 2002524777	W	20020806	WO 1999SE1515	A	19990902	200266	E
			JP 2000569392	A	19990902		
AU 760377	B	20030515	AU 199958944	A	19990902	200337	E
EP 1110207	B1	20050420	EP 1999946549	A	19990902	200528	E
			WO 1999SE1515	A	19990902		
DE 69924853	E	20050525	DE 69924853	A	19990902	200538	E
			EP 1999946549	A	19990902		
			WO 1999SE1515	A	19990902		
CN 1165889	C	20040908	CN 1999810589	A	19990902	200615	E
US 7110948	B1	20060919	US 1999388609	A	19990902	200662	E

Priority Applications (no., kind, date): SE 19982990 A 19980904

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2000014729	A2	EN	16	3	
National Designated States, Original: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW					
Regional Designated States, Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW					
SE 199802990	A	SV			
AU 199958944	A	EN			Based on OPI patent WO 2000014729
BR 199913408	A	PT			PCT Application WO 1999SE1515
					Based on OPI patent WO 2000014729
EP 1110207	A2	EN			PCT Application WO 1999SE1515
					Based on OPI patent WO 2000014729
Regional Designated States, Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
JP 2002524777	W	JA	21		PCT Application WO 1999SE1515
					Based on OPI patent WO 2000014729
AU 760377	B	EN			Previously issued patent AU 9958944
					Based on OPI patent WO 2000014729
EP 1110207	B1	EN			PCT Application WO 1999SE1515
					Based on OPI patent WO 2000014729
Regional Designated States, Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
DE 69924853	E	DE			Application EP 1999946549
					PCT Application WO 1999SE1515
					Based on OPI patent EP 1110207
					Based on OPI patent WO 2000014729

Speech recognition system for accurate voice dialling in mobile telephone

Alerting Abstract ... NOVELTY - The speech recognition system has words in a vocabulary arranged in a trellis structure comprising a number of groups of words. A limited number of groups of the entire vocabulary is searched for a word at each time. The vocabulary is arranged in a tree structure. The system includes an element for outputting the words the system is set to recognize at a particular moment. DESCRIPTION - INDEPENDENT CLAIMS are included for a speech recognition method...

...with echo effects. At each instant system only needs to search limited part of entire **vocabulary**. Solves problem of having to search many **words** at a time, thus saving time and computational load on system..

... DESCRIPTION OF DRAWINGS - The figure shows a block diagram of a **speech recognition** system

Class Codes

International Classification (Main): **G10L-015/06** ...

... **G10L-015/28**

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G10L-0015/00 ...

... **G10L-0015/06** ...

... **G10L-0015/08** ...

... **G10L-0015/28**

G10L ...

... **G10L-0015/00** ...

... **G10L-0015/00**

Original Publication Data by Authority

Original Abstracts:

In a **speech recognition** system of a **mobile** telephone the **words** are organized in a trellis structure. Thus, at each instant the **speech recognition** system only **needs to** search a limited part of the entire **vocabulary**. Such an arrangement **solves** the problem of having to search many **words** at a time, **which** is time consuming and imposes a high computational load on the system and will therefore significantly increase the accuracy for the **speech recognition** system

...

...In a **speech recognition** system of a mobile telephone the **words** are organized in a trellis structure. Thus, at each instant the **speech recognition** system only needs to search a limited **part of** the entire **vocabulary**. Such an arrangement solves the problem of having to search many **words** at a time, **which** is time consuming and **imposes** a high computational load on the system and will therefore significantly increase the accuracy for the **speech recognition** system

...

...In a **speech recognition** system of a mobile telephone the **words** are organized in a trellis **structure**. Thus, at each instant the **speech recognition system** only needs to search a limited part of the entire **vocabulary**. Such an arrangement solves the problem of having to search many **words** at a time, which is time consuming and imposes a high computational load on the system and will therefore significantly increase the accuracy for the **speech recognition** system

Claims:

...A **speech recognition** system for a mobile telephone for recognizing entered command **words**, the system comprising: means for analyzing entered voice signals, means for storing a vocabulary containing a plurality of **words**, and means for comparing entered voice signals with **words** in the

stored **vocabulary**, characterized in that</br> the **words** in the **vocabulary** are arranged in a tree structure comprising a number of groups of words in different levels, and **that** </br> the speech recognition system is adapted to first recognize a **first word** entered into the mobile telephone at one level in the tree structure, and thereafter **search** only a group of **words** under the first **word** at the next level in the tree structure when a second **word** is entered into the mobile telephone.

...

... The invention claimed is: 1. A **speech recognition** system in a mobile telephone, the **speech recognition** system comprising: a stored **vocabulary**, wherein **words** in the **vocabulary** are arranged in a trellis structure comprising a plurality of different groups of **words**, and a **word** group selection system for enabling a **user** to **speak** via **voice commands** to select at least a first of said plurality of different groups of **words**, said **first** group of words being selected based upon at least a **word** spoken by the **user**, so **that** a limited **number** of groups of the entire **vocabulary**, less than said plurality, is searched for a **word** during subsequent **speech recognition processes** in the mobile telephone after **selection** of at least the **first** of said plurality of groups of **words**.>

17/3, K/18 (Item 11 from file: 350)

DI ALOG(R) File 350: Derwent WPI X

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0009765282 - Drawing available

WPI ACC NO: 2000-052130/200004

Related WPI Acc No: 1995-240307; 1999-070054; 1999-403770; 1999-404055; 1999-404056; 1999-456293; 1999-600343; 2000-586103; 2000-636971; 2000-637172

XRPX Acc No: N2000-040655

Voice response confirmation system for speech recognition system

Patent Assignee: DRAGON SYSTEMS INC (DRAG-N)

Inventor: GOULD J M

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5983179	A	19991109	US 1992976413	A	19921113	200004 B
			US 1995382752	A	19950201	
			US 1997882918	A	19970626	

Priority Applications (no., kind, date): US 1995382752 A 19950201; US 1992976413 A 19921113; US 1997882918 A 19970626

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5983179	A	EN	128	89	C-I-P of application US 1992976413 Division of application US 1995382752 C-I-P of patent US 5428707

Voice response confirmation system for speech recognition system

Original Titles:

Speech recognition system which turns its voice response on for confirmation when it has been turned off...

Alerting Abstract ...the speech response is to be left in ON or OFF state is based on **word** which speech response selects corresponding to user's confirmation **utterance**. The speech response is turned OFF by storing

indications which indicates that OFF state has...

DESCRIPTION - The acoustic signals received from a receiver is matched with models of **vocabulary words**. A speech-response unit responds to sounds which appear to match models of spoken **words** by performing functions associated with it. A confirmation process is performed if it is detected that speech response is OFF and no indication is stored corresponding to OFF **state** confirmed by **user**. The **user** is prompted to **utter** a phrase confirming whether or not speech response is to be OFF...

...**USE** - For **speech recognition** system...

...**ADVANTAGE** - Offers **speech recognition** apparatus by which user can recognize **words** easily and accurately. Enables user to correct errors in **word** recognition accurately. Improves ability to control **speech recognition** system by **voice** alone. Reduces number of samples of **word** an user has to generate to achieve given level of **word** recognition performance. Increases ability of **word** recognition to control or provide input to other programs running on same computer system as it is. Improves **word** recognition by which both specified **word** models and custom **word** models are identified...

Class Codes

International Classification (Main): **G10L-007/08**

Original Publication Data by Authority

Original Abstracts:

A **speech recognition** system includes a **speech**-response capability for responding to sounds which appear to match models of spoken **words** by performing functions **associated** with such **words**. This speech response **can** be turned on or off. If the system detects both that speech response is off and that no indication is stored that the off state has been confirmed **by a user**, it performs a confirmation process. This prompts the **user** to **utter** a **phrase** confirming **whether** or not speech response is to be off; turns speech response on so it can respond to the user's confirmation **utterance**; determines whether to **leave** speech response on or off in response to the **word** which the speech **response** selects as corresponding to the user's confirmation **utterance**; and responds to **such** a determination that speech response is to be turned off, both by turning it off and by storing an indication that the off state has been confirmed **by the user**. In some embodiments, the system can **execute** user written **programs** which can include **instructions** for turning speech response on or off. In this case, the system can delay the start of a confirmation process until after the **execution** of such a **program**, to allow such **programs** to temporarily turn off speech response without requiring user confirmation. In some embodiments, the user can select whether to deactivate the feature which causes a confirmation processes to occur **whenever** **speech** response has been turned off without confirmation.

Claims:

A computerized **speech recognition system** comprising: **speech**-response means including: means for receiving acoustic signals representing sounds received by a microphone; recognition means for pattern matching said acoustic signals against models of vocabulary **words**, to select, based on said pattern matching, **which** vocabulary **words**, if any, most probably correspond to **those** **signals**; and means for responding to a selection of a given **vocabulary word** as most probably corresponding to a given acoustic **signal** by performing a function associated with that **vocabulary word**; on-off means for selectively setting the speech **response** means to an on or off state in which said speech response means, respectively, either can...

...or not an off state of said speech response means has been confirmed by

the **user**; confirmation means for performing a **confirmation process** including: first means for prompting the **user** to **utter** a phrase of one or more **words** confirming whether or not the **user** wants said **speech** response means to be in the off state; **second** means for causing said on-off means to set said speech response means to an on state so said speech response means can respond to an **utterance** the user makes in response to said prompt; third means for determining whether to place said speech response means in said on or off **state** in response to the **vocabulary word** selected by the recognition means as corresponding to an acoustic signal received after said prompt; fourth means for responding to **such a** determination to place said **speech** response means off, by causing said on-off means to set said speech response means...

...speech response means being in said off state and said confirmation information indicating that the **off state** has not been confirmed by the user, for initiating said confirmation **process** in which said first, second, third, and forth means each perform their respective function.

17/3, K/19 (Item 12 from file: 350)

DI ALOG(R) File 350: Derwent WPI X

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0009648092 - Drawing available

WPI ACC NO: 1999-600343/199951

Related WPI Acc No: 1995-240307; 1999-070054; 1999-403770; 1999-404055;

1999-404056; 1999-456293; 2000-052130; 2000-586103; 2000-636971;

2000-637172

XRPX Acc No: N1999-442508

Word correction mechanism for speech recognition system

Patent Assignee: DRAGON SYSTEMS INC (DRAGON)

Inventor: GOULD J M; MCGRATH F J; PARKE J W; SQUIRES S D; STEELE E E

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5960394	A	19990928	US 1992976413	A	19921113	199951 B
			US 1995382752	A	19950201	
			US 1997956498	A	19971022	

Priority Applications (no., kind, date): US 1992976413 A 19921113; US 1995382752 A 19950201; US 1997956498 A 19971022

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5960394	A	EN	128	89	C-I-P of application US 1992976413
1995382752					Continuation of application US
					C-I-P of patent US 5428707

Word correction mechanism for speech recognition system

Original Titles:

Method of **speech** command **recognition** with dynamic assignment of probabilities according to the state of the controlled applications.

Alerting Abstract ...transfers the time varying information from other application program actually running on the computer to **word** recognition unit. A probability alerting unit selects one correct **word**, from the selected **words**, on probability basis, with respect to the received time varying information. DESCRIPTION - A recognition unit performs pattern matching of stored **vocabulary words** corresponding to the **word** signals received and selects one or more **words**. An INDEPENDENT CLAIM is also included for **speech recognition** method...

...USE - In **speech recognition** systems...
...ADVANTAGE - Eases **word** recognition and offers error-free **word** recognition. Improves **word** recognition performance. Since training sample of **words** are reduced. Improves performance and offers hands free operation. Algebraic filtering is used to limit recognition of **words** starting with desired letter, thus improves probability of **word** recognition. Useful to handicapped users...

Title Terms/Index Terms/**Additional Words:** **WORD** ;

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

... **G10L-0015/06** ...

... **G10L-0015/18** ...

... **G10L-0015/22** ...

... **G10L-0015/26** ...

... **G10L-0015/28**

... **G10L-0015/00**

Original Publication Data by Authority

Original Abstracts:

A **word** recognition system is **disclosed** for converting spoken **utterances** into either text or commands. The system runs on a platform **capable** of running a plurality **applications**. Text and commands are sent from a **word** recognition application to **one** or more user applications. In addition, **information** pertaining to the **state** of the **user applications** is sent **back** to the **word** recognition application. **Word** **recognition** probabilities are **modified** based the information received from the user applications. As a result, the probabilities of recognizing a spoken **utterance** as a particular **command** will be greater when that command is active in the user application than when it...

...Also, text strings will be assigned higher probabilities when they are appropriate for the present **state** of the **user application**. >

Claims:

A **word** recognition **system** designed to **run** as **part** of one **program** on a computer system which is capable of running a plurality of computer application programs at one time, said **word** recognition **system** including: means for receiving user generated **word** signals representing **words** to be recognized; **recognition** means for performing pattern matching upon the **word** signals to select which one or more of a plurality of **vocabulary words** most probably correspond to **each** **such** **word** signal; other-program monitoring means **for** repeatedly initiating the transfer to said **word** recognition system of time varying information from **one** or more other application programs running on said computer; and probability-altering means for repeatedly altering the probability of which **vocabulary words** will be selected by said recognition means as **most** **probably** corresponding to a received **word** signal as a function of the time varying information **received** as a result of said transfer.

17/3, K/20 (Item 13 from file: 350)

DI ALOG(R) File 350: Derwent WPI X

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0008977603 - Drawing available

WPI ACC NO: 1998-531449/199845

XRPX Acc No: N1998-414727

Voice controlled **personal computer interface system for military, avionics application, robotics in plant - displays subroutines that aids user for providing input based on input utterances**

Patent Assignee: APPLIED VOICE RECOGNITION LP (VOIC-N)

Inventor: DOUGLAS H R

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 5812977	A	19980922	US 1996696125	A	19960813	199845 B

Priority Applications (no., kind, date): US 1996696125 A 19960813

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 5812977	A	EN	11	5		

Voice controlled **personal computer interface system for military, avionics application, robotics in plant...**
...displays subroutines that aids user for providing input based on input utterances

Original Titles:

Voice control computer interface enabling implementation of common subroutines.

Alerting Abstract ...The system uses a sequence of computer instructions in order to perform several tasks. The **user utters** the sequence for performing tasks through a microphone (20). The computer instruction includes a help subroutine which aids the user for providing input based on the **utterances** from the user. A conditioning circuit (20) outputs a conditioned input signal from the input **utterances**.

...USE - **Voice controlled** weapons launch system **Voice controlled** remotely piloted vehicle, **speech recognition** system

Class Codes

International Classification (Main): G10L-003/00

Original Publication Data by Authority

Original Abstracts:

...used to open various subroutines. The disclosed system which is preferably operated by means of **voice commands**, therefore improves the **performance** of the user so that the subroutines can be fetched more readily, operated more effectively...

Claims:

A **voice controlled computer interface** system comprising: (a) a sequence of computer instructions requiring input by a user in order to perform one or more tasks; (b) a microphone into which said **user utters** said sequence; (c) a **help subroutine** included within said computer instructions which, upon activation by **utterances** from said user, aids said user in **providing** said input; (d) a conditioning circuit for forming a conditioned input signal from said **utterances**; (e) a stored **vocabulary**; and (f) a recognition unit for correlating said conditioned input signal with an element of said stored **vocabulary** thereby creating compatible instructions recognizable by said computer.

17/3, K/21 (Item 14 from file: 350)

DI ALOG(R) File 350: Derwent WPI X

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0007864042 - Drawing available

WPI AOC NO: 1996-494600/199649

XRPX Acc No: N1996-417118

Audio control system for data processing system - outputs desirable pronunciation of word by combining text data with notes, which is stored in dictionary file

Patent Assignee: IBM CORP (IBM); INT BUSINESS MACHINES CORP (IBM)

Inventor: JOHNSON W JOHNSON WJ; OWEN; WEBER O

Patent Family (3 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
JP 8255047	A	19961001	JP 199611677	A	19960126	199649 B
US 5787231	A	19980728	US 1995382737	A	19950202	199837 E
JP 3065924	B2	20000717	JP 199611677	A	19960126	200039 E

Priority Applications (no., kind, date): US 1995382737 A 19950202

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 8255047	A	JA	13	5	
JP 3065924	B2	JA	10		Previously issued patent JP 08255047

... outputs desirable pronunciation of word by combining text data with notes, which is stored in dictionary file

Original Titles:

METHOD AND SYSTEM FOR ANNOTATION OF VOICE CONTROL SYSTEM..

... Method and system for improving pronunciation in a voice control system

Alerting Abstract ... This desirable pronunciation of the word is stored in a dictionary file (44...

Title Terms.../Index Terms/Additional Words: WORD ;

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

... G10L-0013/02 ...

... G10L-0013/04 ...

... G10L-0013/08

... G10L-0013/00

Original Publication Data by Authority

Original Abstracts:

A voice enunciation system and method provides a user with the capability to sound out text files. As the files are audibly played, if the user is not satisfied with the pronunciation of a particular word, the system provides the user with the means of replacing the word with his own particular pronunciation. The preferred pronunciation is also stored in an override dictionary so that any subsequent encounter with that particular word is pronounced correctly.

Claims:

Claim 11. A method in a data processing system for enhancing voice pronunciation of a textual input stream comprising the steps of: receiving text from the textual input stream; customizing a...

17/3, K/22 (Item 15 from file: 350)

DI ALOG(R) File 350: Derwent WPI X

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0006798545 - Drawing available

WPI AOC NO: 1994-185234/199423

XRPX Acc No: N1994-146268

Confusing phrase entry prevention in voice recognition system - using hidden Markov modelling to compare repeated entries of additional phrase, with controlled variation of allocated probabilities

Patent Assignee: TEXAS INSTR INC (TEXI)

Inventor: ITTYCHERIAH A P; WHEATLEY B J

Patent Family (6 patents, 7 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 601876	A1	19940615	EP 1993309975	A	19931210	199423 B
US 5452397	A	19950919	US 1992989285	A	19921211	199543 E
EP 601876	B1	19980304	EP 1993309975	A	19931210	199813 E
DE 69317229	E	19980409	DE 69317229	A	19931210	199820 E
			EP 1993309975	A	19931210	
KR 283736	B	20010302	KR 199327148	A	19931210	200214 E
JP 3388845	B2	20030324	JP 1993310640	A	19931210	200323 E

Priority Applications (no., kind, date): US 1992989285 A 19921211

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 601876	A1	EN	7	5	
Regional Designated States, Original:					DE FR GB IT NL
US 5452397	A	EN	8	6	
EP 601876	B1	EN	10	5	
Regional Designated States, Original:					DE FR GB IT NL
DE 69317229	E	DE			Application EP 1993309975
					Based on OPI patent EP 601876
KR 283736	B	KO			Previously issued patent KR 94015969
JP 3388845	B2	JA	8		Previously issued patent JP 06282291

Confusing phrase entry prevention in voice recognition system..

...using hidden Markov modelling to compare repeated entries of additional phrase, with controlled variation of allocated probabilities

Original Titles:

...Method and system preventing **entry** of confusingly similar phrases in a **voice recognition system vocabulary list**...

...Method and system for preventing **entry** of confusingly similar phrases in a **voice recognition system vocabulary list**...

...Method and system for preventing **entry** of confusingly similar phrases in a **voice recognition system vocabulary list**

Alerting Abstract ...an additional phrase (60) for adding to the vocabulary list (10) in a speaker-dependent **voice recognition system** Probabilities (62) are allocated to all phrases (12), with existing phrases being assigned greater...

...phrase matches any already-existing phrase (12, 14, 16) in the modified list. If so, **entry** of the new is inhibited...

...USE/ ADVANTAGE - In **voice recognition system** e.g. for dialling telephone numbers from database w.r.t. **voice command**, to prevent addn. of confusingly similar commands to those on existing vocabulary list.

Equivalent Alerting Abstract ...1. A method for preventing the **entry** of confusingly similar phrases in a **vocabulary** list of a speaker-dependent **voice recognition** system comprising the steps of...
...phrase, said first probability and said second probability controlling the likelihood that said speaker-dependent **voice recognition** system will match said second-received phrase to said first-received phrase or said plurality...

Class Codes

International Classification (Main): **G10L-015/00** ...

... **G10L-003/00**

International Classification (+ Attributes)

IPC + Level Value Position Status Version

... **G10L-0015/06** ...

... **G10L-0015/10**

... **G10L-0015/00**

Original Publication Data by Authority

Original Abstracts:

A method and system prevent the **entry** of confusingly similar **phrases** (60) in a **vocabulary** list (10) of a speaker-dependent **voice recognition** system. The **method** **first** receives (20, 30, 50) and enrolls the phrase (60) for adding to **vocabulary** list (10). Next, probabilities (62) are assigned to all phrases (12). Probabilities (62) assigned to...
...A method and system prevent the **entry** of confusingly similar phrases (60) in a **vocabulary** list (10) of a speaker-dependent **voice recognition** system. The method first receives (20, 30, 50) and enrolls the phrase (60) for adding to **vocabulary** list (10). Next, probabilities (62) are assigned to all phrases (12). Probabilities (62) assigned to...

Claims:

1. A method for preventing the **entry** of **confusingly** similar phrases in a **vocabulary** list of a speaker-dependent **voice recognition** system, **comprising** the steps of: first receiving a first-received phrase for adding to a plurality of...

...phrase, said first probability and said second probability controlling the likelihood that said speaker-dependent **voice recognition** system **will** match said second-received phrase to said first-received phrase or said plurality of other...

...1. A method for preventing the **entry** of already existing or confusingly similar phrases in a **vocabulary** list (10) of a speaker-dependent **voice recognition** system comprising the steps of:
first receiving a first-received phrase (60) pronounced by a **user** for adding to a **plurality** of **other phrases** (12, 14, 16) on a **vocabulary** list;
enrolling said phrase in said **vocabulary** list;
assigning a first probability to said phrase (60) and a second probability to each...

...user, said first probability and said second probability controlling the likelihood that said speaker-dependent **voice recognition** system will match said second-received phrase to said first-received phrase (60) or one of said plurality of other phrases (12, 14, 16) on said vocabulary list;
comparing said **second - received** phrase to said vocabulary list including said first-received phrase (60) and said plurality of...

...A method for preventing the **entry** of confusingly similar phrases in a **vocabulary** list of a speaker-dependent **voice recognition** system

comprising the steps of: first receiving a first-received phrase for adding to a plurality of other phrases on a **vocabulary** list; enrolling said first-received **phrase** in said **vocabulary** list; assigning a **first** probability to said phrase and a **second** probability to each of said plurality of other phrases, said second probability having a greater...

...phrase, said first probability and said second probability controlling the likelihood that said speaker-dependent **voice recognition** system will match said second-received phrase to said first-received phrase or said plurality **other phrases**; indicating whether said second-received phrase matches one of said plurality of other phrases; and...

17/3, K/23 (Item 16 from file: 350)
DI ALOG(R) File 350: Derwent WPI X
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0005506674 - Drawing available
WPI ACC NO: 1991-109665/199115
XRPX Acc No: N1991-084511

Voice recognition **system for security functions** - has audio signal converted into bytes representing time between audio signal zero crossings

Patent Assignee: SEARCY G (SEAR-I)

Inventor: KAVAN F; SEARCY G

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 5003603	A	19910326	US 1984642299	A	19840820	199115 B

Priority Applications (no., kind, date): US 1984642299 A 19840820

Voice recognition **system for security functions...**

Original Titles:

Voice recognition system

Alerting Abstract ...intervals which are based on a computation of substantially equal byte activity in all the **words** comprising the command **lexicon**.

...In this manner, lower and higher frequency groups are selected for equal significance. The uttered **words** are then compared against stored **words** similarly transformed according to segment and frequency interval and if the comparison conditions are satisfied...

...USE/ ADVANTAGE - Also for **voice** -responsive remote **control** system Recognises spoken commands **uttered** by **user** and generates responsive control signals once the command is recognised. @11pp Dwg. No. 1/7) @

Class Codes

(Additional / Secondary): **G10L-005/00**

Original Publication Data by Authority

Original Abstracts:

A method and apparatus are disclosed for recognizing spoken commands **uttered** by a **user** and for generating responsive control signals once the command is recognized. In accordance with this disclosure...

...intervals which are based on a computation of substantially equal byte activity in all the **words** comprising the command **lexicon**. In this manner, lower and higher frequency groups are selected for equal

significance. The uttered **words** are then compared against stored **words** **similarly** transformed according to segment and frequency interval and if the comparison conditions are satisfied the...

17/3, K/24 (Item 17 from file: 350)
 DI ALOG (R) File 350: Derwent WPI X
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0005211116 - Drawing available
 WPI ACC NO: 1990-202891/199027
 XRPX Acc No: N1990-157892

Speech recognition **system - displays word menu to user for acceptance or prior editing before association with acoustic model**

Patent Assignee: DRAGON SYST INC (DRAG-N); DRAGON SYSTEMS INC (DRAG-N)

Inventor: BAKER J K; PORTER E W; ROBERTS J

Patent Family (5 patents, 13 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 376501	A	19900704	EP 1989312521	A	19891130	199027 B
ES 2018761	A	19910516				199125 E
US 5027406	A	19910625	US 1988280700	A	19881206	199128 E
EP 376501	B1	19970604	EP 1989312521	A	19891130	199727 E
DE 68928097	E	19970710	DE 68928097	A	19891130	199733 E
			EP 1989312521	A	19891130	

Priority Applications (no., kind, date): US 1988280700 A 19881206

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 376501	A	EN				
Regional Designated States, Original: AT BE CH DE ES FR GB GR IT LI LU NL SE						
EP 376501	B1	EN	47	36		
Regional Designated States, Original: AT BE CH DE ES FR GB GR IT LI LU NL SE						
DE 68928097	E	DE			Application	EP 1989312521
					Based on OPI patent	EP 376501

Speech recognition **system**..

...**displays word menu to user for acceptance or prior editing before association with acoustic model**

Original Titles:

... **Speech recognition system**..

... **Speech recognition system**..

...Method for interactive **speech recognition** and training

Alerting Abstract ...The **speech recognition** system provides a method of creating **word** models. An acoustic model is made from one or more **utterances** of a **word** or group of **words** spoken as a single **utterance**. A group of textual characters is associated with this **utterance** and displayed to the user. If the **word** is not correctly recognised a menu of such groups may be displayed and the user...

...The system saves tokens only for **utterances** when the user specifically confirms the group of characters to be associated with that **utterance**. All the tokens associated with a **word** are stored and when a confirmation is received a new acoustic model is built using...

Equivalent Alerting Abstract ...As the **user** is dictating, the **user**

speaks a **word** which may or may not already be in the active **vocabulary**. The system displays a list of the **words** in the active **vocabulary** which best match the spoken **word**. By keyboard or **voice command**, the user may choose the correct **word** from the list or may choose to edit a similar **word** if the correct **word** is not on the list. Alternately, the **user** may type or **speak** the initial letters of the **word**. Then the recognition algorithm is called again satisfying the initial letters, and the choices displayed again. A **word** list is then also displayed from a large backup **vocabulary**. The best **words** to display from the backup **vocabulary** are chosen using a statistical language model and optionally **word** models derived from a phonemic **dictionary**. When the correct **word** is chosen by the user, the speech sample is used to create or update an acoustic model for the **word**, without further intervention by the user. As the system is used, it also constantly updates...

... **USE/ ADVANTAGE** - Creating **word** models for large **vocabulary**, natural language dictation system. User with limited typing skills can create documents with little or no advance training of **word** models...

Title Terms.../ **Index Terms**/ **Additional Words**: **WORD**;

Class Codes

International Classification (Main): **G10L- 005/ 06**

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G10L- 0015/ 06 ...

... **G10L- 0015/ 22**

G10L- 0015/ 00 ...

Original Publication Data by Authority

Original Abstracts:

A system for creating **word** models comprising means for making an acoustic model from one or more **utterances** of **word**, means for enabling a user to associate a sequence of textual characters with that acoustic...

... A method for creating **word** models for a large **vocabulary**, natural language dictation system. A user with limited typing skills can create documents with little or no advance training of **word** models. As the **user** is dictating, the user **speaks** a **word** which may or may not already be in the active **vocabulary**. The system displays a list of the **words** in the active **vocabulary** which best match the spoken **word**. By keyboard or voice command, the user may choose the correct **word** from the list or may choose to edit a similar **word** if the correct **word** is not on the list. Alternately, the **user** may type or **speak** the initial letters of the **word**. Then the recognition algorithm is called again satisfying the initial letters, and the choices displayed again. A **word** list is then also displayed from a large backup **vocabulary**. The best **words** to display from the backup **vocabulary** are chosen using a statistical language model and optionally **word** models derived from a phonemic **dictionary**. When the correct **word** is chosen by the user, the speech sample is used to create or update an acoustic model for the **word**, without further intervention by the user. As the system is used, it also constantly updates its statistical language model. The system gets more and more **word** models and keeps improving its performance the more it is used. The system may be used for connected speech as well as for discrete **utterances**. >

Claims:

The **speech recognition** system provides a method of creating **word** models. An acoustic model is made from one or more **utterances** of a **word** or group of **words** spoken as a single **utterance**. A group of textual characters is associated with this **utterance** and displayed to the user.

If the **word** is not correctly recognised a menu of such groups may be displayed and the user...

...The system saves tokens only for **utterances** when the user specifically confirms the group of characters to be associated with that **utterance**. All the tokens associated with a **word** are stored and when a confirmation is received a new acoustic model is built using...

...1. A **speech recognition** system for performing **speech recognition** on an uttered **word** comprising
 - means (124) for storing a set of acoustic **word** models (132), each comprising acoustic data, with each such acoustic **word** model (132) being stored in association with a **word** label (504),
 - means (112-118) for forming an acoustic description of an uttered **word** to be recognised,
 - recognition means (129) for comparing the acoustic description thus formed against a plurality of stored acoustic **word** models (132) stored in said means for storing a set of acoustic **word** models (124-128) and for selecting an acoustic **word** model (132) which best matches the acoustic description, characterised in that means (208-214) are...

...data from the acoustic description with the acoustic data stored for the best matching acoustic **word** model (132) thereby to update (180) the acoustic **word** model (132), and means (216) are provided for storing the updated acoustic **word** model (132) in said set of stored acoustic **word** models such that the updated acoustic **word** model (132) is used in the subsequent performance of **speech recognition** utilising said system

19/3, K/1 (Item 1 from file: 350)

DI ALOG(R) File 350: Derwent WPI X

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0012906288 - Drawing available

WPI AOC NO: 2002-229223/200229

XRPX Acc No: N2002-176198

Speech recognition system for mobile communication devices is capable of rapidly processing greater varieties of words and operable in many different devices

Patent Assignee: VERBALTEK CO LTD (VERB-N); VERBALTEK INC (VERB-N)

Inventor: CHANG J; CHEN J Y; KIM Y; PAN J

Patent Family (7 patents, 30 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
EP 1139332	A2	20011004	EP 2000309816	A	20001106	200229 B
CN 1315809	A	20011003	CN 2000109843	A	20000707	200229 E
EP 1139332	A9	20020320				200229 E
KR 2001096490	A	20011107	KR 200060110	A	20001012	200229 E
US 6304844	B1	20011016	US 2000538657	A	20000330	200229 E
JP 2002108387	A	20020410	JP 200153125	A	20010123	200240 E
TW 504663	A	20021001	TW 2001106813	A	20010322	200337 E

Priority Applications (no., kind, date): US 2000538657 A 20000330

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 1139332	A2	EN	19	10		
Regional Designated States, Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR						
EP 1139332	A9	EN				
Regional Designated States, Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR						
JP 2002108387	A	JA	64			
TW 504663	A	ZH				

Speech recognition system for mobile communication devices is capable

of rapidly processing greater varieties of words and...

Original Titles:

... Spelling **speech** **recognition** apparatus...

... SYLLABIC **SPEECH** **RECOGNITION** SYSTEM AND METHOD FOR MOBILE COMMUNICATION...

... Spelling **speech** **recognition** apparatus and method for communications.

Alerting Abstract ... NOVELTY - A front-end signal processor is used for generating parametric representation of **speech input** signals. The parametric signals are compared with the parametric representations of letter pronunciations. Then a sequence of associations between the **input speech**, the letters in a pronunciation database (103) and a **vocabulary** database (203). These selected letters and **words** are displayed for confirmation... are also included for a letter similarity comparator, an electronic communication device, a method of **recognizing speech** sound signals...

... DESCRIPTION OF DRAWINGS - The drawing shows a block diagram of the **speech recognition** system according to the present invention...

Class Codes

International Classification (Main): **G10L-015/00**

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G10L-0015/02 ...

... **G10L-0015/10** ...

... **G10L-0015/18** ...

... **G10L-0015/22**

G10L-0015/00 ...

Original Publication Data by Authority

Original Abstracts:

An accurate **speech recognition** system capable of **rapidly processing** greater varieties of words and operable in many different devices, but without the computational power and memory requirements, high power consumption, complex **operating system**, high costs, and **weight** of traditional systems. The utilization of individual letter utterances to transmit **words** allows voice information...

... phones, PDAs, and other communication devices. This invention is an apparatus and method for a **speech recognition** system comprising a **microphone**, front-end signal processor for generating parametric **representations** of **speech input** signals, a **pronunciation database**, a letter similarity comparator for comparing the parametric representation of the input signals with the parametric representations of letter pronunciations, and generating a sequence of associations between the **input speech** and the **letters** in the pronunciation database, a **vocabulary database**, a **word** similarity comparator for **comparing** an aggregated plurality of the letters with the **words** in the **vocabulary database** and generating a sequence of associations between them and a display for displaying the selected letters and **words** for confirmation.

...

... An accurate **speech recognition** system capable of **rapidly processing** greater varieties of words and operable in many different

devices, but without the computational power and memory requirements, high power consumption, complex **operating system**, high costs, and **weight of** traditional systems. The utilization of individual letter utterances to transmit **words** allows voice information transfer...

...phones, PDAs, and other communication devices. This invention is an apparatus and method for a **speech recognition** system comprising a **microphone**, **front**-end signal processor for generating parametric representations of **speech input** signals, a pronunciation **database**, a letter similarity comparator for comparing the parametric representation of the input signals with the parametric representations of letter pronunciations, and generating a sequence of associations between the **input speech** and the letters in the pronunciation database, a vocabulary database, a **word** similarity comparator for comparing an aggregated plurality of the letters with the **words** in the **vocabulary** database and generating a **sequence** of associations between them, and a display for displaying the selected letters and **words** for confirmation.

Claims:

A **speech recognition system** comprising: microphone means for receiving acoustic waves and converting the acoustic waves into electronic signals; front...

...electronic signals and said plurality of parametric representations of letter pronunciations responsive to predetermined criteria; **vocabulary** database storage means for storing a plurality of parametric representations of **word** pronunciations; **word** similarity comparator means, coupled to said letter similarity comparator and to said **vocabulary database** storage means, for comparing an aggregated plurality of parametric representations of letter **pronunciations** with said plurality of parametric representations of **word** pronunciations, and generating a second sequence of associations between at least one of **said** aggregated plurality of parametric representations of the letter pronunciations with at least one of said...

...A **speech recognition** system comprising: microphone means for receiving acoustic waves and converting the acoustic waves into electronic signals; front-end signal **processing means**, **coupled** to said microphone means, for processing the electronic signals to generate parametric representations of the...

...electronic signals and said plurality of parametric representations of letter pronunciations responsive to predetermined criteria; **vocabulary** database storage means for storing a plurality of parametric representations of **word** pronunciations; **word** similarity comparator means, coupled to said letter similarity comparator and to said **vocabulary** database storage means, for **comparing** an aggregated plurality of parametric representations of letter pronunciations with said **plurality** of parametric representations of **word** pronunciations, and generating a second sequence of associations between at least **one** of said aggregated plurality of parametric representations of the letter pronunciations with at least one of said plurality of parametric representations of **word** pronunciations responsive to predetermined criteria; and display means, coupled to said word similarity comparator means...

^ 19/3, K/2 (Item 2 from file: 350)

DI ALOG(R) File 350: Derwent WPI X

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0009806402 - Drawing available

WPI ACC NO: 2000-096022/200008

XRPX Acc No: N2000-074109

Computer program in reading machine with recursive dictionary and talking help menu for persons with visual impairment

Patent Assignee: KURZWEIL EDUCATIONAL SYSTEMS INC (KURZ-N)

Inventor: DIONNE M S; GORMAN M T

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5999903	A	19991207	US 1997883723	A	19970627	200008 B

Priority Applications (no., kind, date): US 1997883723 A 19970627

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5999903	A	EN	24	12	

Alerting Abstract ... NOVELTY - A text file is produced for selected word, that comprises data assisting user. An **operating system** routine is called to command the **operating system** for producing a new window on a display device. The window is filled with data...

... ADVANTAGE - Provides enrichment feature such as spelling, **dictionary** in recursive manner by calling **word by word** as per user desire, thus enabling user to seek and read definition of **word** while the **word** is spelled, defined and translated...

Class Codes

... (Additional / Secondary): G10L-009/06

Original Publication Data by Authority

Original Abstracts:

A reading machine includes computer program residing on a computer readable medium operable with an **operating system** that permits **the production** of windows on a display. The program has instructions for causing a computer to provide...

... file for the first selected word comprised of data that assists the user call. An **operating system** routine commands **the operating system** to create **a new window** on the display and fill the new window on the display with the information...

Claims:

... display for displaying text or an image representation of text; said computer program operable with an **operating system** that permits the production of windows on **a display**; said computer program enabling the reading machine **to synthesize** speech from a first text file corresponding to **the text** or image representation of a document displayed on the display, said computer program comprising instructions...

... a synonym or a foreign translation of a word from the first text file; call **an operating system** routine to command **the operating system** to create a new window on the **display**; **fill** the new window on **the display** with the data contained in the second text file; provide a second call to a...

19/3, K/3 (Item 3 from file: 350)

DI ALOG(R) File 350: Derwent WPI X

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0009666575 - Drawing available

WPI ACC NO: 1999-620103/199953

XRPX Acc No: N1999-457378

Processor controlled application program operating system with voice recognition

Patent Assignee: MOTOROLA INC (MOTI)

Inventor: BALAKRISHNAN S

Patent Family (8 patents, 81 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1999050831	A1	19991007	WO 1999US5339	A	19990311	199953 B
AU 199930805	A	19991018	AU 199930805	A	19990311	200010 E
EP 986809	A1	20000322	EP 1999912430	A	19990311	200019 E
			WO 1999US5339	A	19990311	
CN 1262762	A	20000809	CN 1999800423	A	19990311	200055 E
US 6233559	B1	20010515	US 199853432	A	19980401	200129 E
EP 986809	B1	20030903	EP 1999912430	A	19990311	200360 E
			WO 1999US5339	A	19990311	
DE 69910928	E	20031009	DE 69910928	A	19990311	200374 E
			EP 1999912430	A	19990311	
			WO 1999US5339	A	19990311	
CN 1109328	C	20030521	CN 1999800423	A	19990311	200541 E

Priority Applications (no., kind, date): US 199853432 A 19980401

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1999050831	A1	EN	22	5	
National Designated States, Original: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW					
Regional Designated States, Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW					
AU 199930805	A	EN			Based on OPI patent WO 1999050831
EP 986809	A1	EN			PCT Application WO 1999US5339
					Based on OPI patent WO 1999050831
Regional Designated States, Original: DE FI FR GB NL SE					
EP 986809	B1	EN			PCT Application WO 1999US5339
					Based on OPI patent WO 1999050831
Regional Designated States, Original: DE FI FR GB NL SE					
DE 69910928	E	DE			Application EP 1999912430
					PCT Application WO 1999US5339
					Based on OPI patent EP 986809
					Based on OPI patent WO 1999050831

Processor controlled application program operating system with voice recognition

Original Titles:

... COMPUTER OPERATING SYSTEM WITH VOICE RECOGNITION

...

... SPEECH RECOGNITION METHOD WITH MULTIPLE APPLICATION PROGRAMS...

... COMPUTER OPERATING SYSTEM WITH VOICE RECOGNITION

Alerting Abstract ... NOVELTY - An application (32) is under the control of **operating system** (30) and is modularly separated from the system (30). The application contains a **voice recognizer** (36) for **recognizing voice** commands which are presented to an arbitrator (70) for recognizing information indicative of the **voice recognizer**'s ability to **recognize** the **voice** commands. DESCRIPTION - The application comprises a dictionary and **language** model. The **recognition** information is dependent on the dictionary and the language model. An INDEPENDENT CLAIM is also...
... USE - For indicating the **operating system** whether given **speech input** is useful to the individual applications...

... ADVANTAGE - Application is better situated than the **operating system** for determining as whether certain speech is relevant to the application. The direction of speech to the **operating system** or to a particular

application can be better decided by the application...

... 30 **Operating system**

...

... 36 **Voice recognizer**

Class Codes

International Classification (Main): **G10L-015/26**

International Classification (+ Attributes)

IPC + Level Value Position Status Version

... **G10L-0015/26**

... **G10L-0015/00**

Original Publication Data by Authority

Original Abstracts:

A computer **operating system** having a **voice recognition tool** (36) and first and second application programs (32 and 34). The **operating system** (30) receives **information from** the first and second application programs relating to control **words** for controlling the application programs. This information is illustrated as **vocabulary A**(74) and **vocabulary B**(76). The **voice recognition tool** (36) is arranged to accept the information from the first and second application programs and perform a comparison with digitized voice received at an **input** (60). A selected one of the application programs (32 and 34) is controlled according to...

... A computer **operating system** (30) receives information from **first** and second application programs relating to control **words** for controlling the application programs. This **information** is contained in **vocabulary A** (74) and **vocabulary B** (76). The **speech recognition tool** (36) is arranged to accept the information from **the first** and second application programs and perform a comparison with digitized speech received at an input...

... A computer **operating system** having a **voice recognition tool** (36) and first and second application programs (32 and 34). The **operating system** (30) receives information from **the first and second application programs** relating to control **words** for controlling the application programs. This information is illustrated as **vocabulary A**(74) and **vocabulary B**(76). The **voice recognition tool** (36) is arranged to accept the information from the first and second **application programs** and perform a comparison with digitized **voice received** at an input (60). A selected one of the application programs (32 and 34) is...

Aims:

... A method of operation of a computer having an **operating system** and at least two application programs, comprising: entering voice commands; comparing the voice commands entered with representations of **the voice** commands associated with each application program to provide a **recognition result** corresponding to each application program **providing** the **recognition result** of each application program to the **operating system**; identifying an application program that is in the foreground and at least one application program that is in the background based on the recognition **results**; and characterised byselectively permitting a particular application program of the at least two application programs...

... A processor comprising: an input for receiving spoken commands; an **operating system** having an arbitrator; one or more applications each having a search applet, the one or more applications under the control of the **operating system** and modularly separate from the **operating system**; one or more vocabularies that may be called by the search applet,

each of the one or more vocabularies having commands pertinent to one of each said **applications**; and one or more language models that may be called by the search applet, each of the one or more language models having language constraints **pertinent to** one of each said applications; **the operating system** comprising a **speech recognizer** for **recognizing** spoken commands and, based on the data found in the vocabularies and language models, obtaining...

...one or more applications to automatically present to the arbitrator recognition information indicative of the **voice recognizer's** ability to **recognize** the spoken **commands**, the arbitrator determining based on the confidence level which of the at least one **or more** applications is **to respond** to **the** spoken commands and permitting the determined application to act on the spoken command and instructing...

...the arbitrator further adapted to direct commands to one of the one or more applications **based on** whether the one application is in the foreground or in the background.

19/3, K/4 (Item 4 from file: 350)

DI ALOG(R) File 350: Derwent WPI X

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0009463474 - Drawing available

WPI ACC NO: 1999-403770/199934

Related WPI Acc No: 1995-240307; 1999-070054; 1999-404055; 1999-404056; 1999-456293; 1999-600343; 2000-052130; 2000-586103; 2000-636971; 2000-637172

XRPX Acc No: N1999-300862

Computerized speech recognition method for use in multitasking operation system

Patent Assignee: DRAGON SYSTEMS INC (DRAG N)

Inventor: GOULD J M; MCGRATH F J; PARKE J W; ROBERTS J M; SQUIRES S D

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5909666	A	19990601	US 1992976413	A	19921113	199934 B
			US 1995382752	A	19950201	
			US 1997883293	A	19970626	

Priority Applications (no., kind, date): US 1992976413 A 19921113; US 1995382752 A 19950201; US 1997883293 A 19970626

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5909666	A	EN	125	89	G-I-P of application US 1992976413 Division of application US 1995382752 G-I-P of patent US 5428707

Computerized speech recognition method for use in multitasking operation system

Original Titles:

Speech recognition system which creates acoustic models by concatenating acoustic models of individual words.

Alerting Abstract ...NOVELTY - An acoustic **word** model and spelling for several **vocabulary words** are stored. A new **vocabulary word** is created from spelling of a phrase of two or more **words**. A new acoustic model is created for new **vocabulary word** by concatenating acoustic models of individual **words** of the phrase. DESCRIPTION - Acoustic **word** signals representing sound of spoken **words** or pattern matched against

stored **vocabulary words**, to produce scores indicating relative probability that given **word** signal corresponds to different stored models. One **vocabulary word** is selected as the most probable one corresponding to given **word** signal as a function of scores produced by pattern matching unit...

...USE - Use in preemptive multitasking **operating system** such as Microsoft NT(RTM), UNIX (RTM) system..

...ADVANTAGE - When used to train **speech recognition** system, user is able to control system by voice even when training by acoustic models. Probability of recognition is increased even when character recognized by **vocabulary** is not represented in signal. Alphabetic filtering is used to limit recognition without considering match of entered **word** with letter in desired **word**.

...

...DESCRIPTION OF DRAWINGS - The figure shows schematic representation of computer system in which **speech recognition** is carried out.

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

... G10L-0015/06 ...

... G10L-0015/18 ...

... G10L-0015/22 ...

... G10L-0015/26 ...

... G10L-0015/28

... G10L-0015/00

Original Publication Data by Authority

Original Abstracts:

A computerized **speech recognition** system creates **acoustic models** of phrases by concatenating acoustic models for individual **words**. The system stores an acoustic word model and spelling for each of its vocabulary words ...

...created by concatenating the acoustic word models of previous vocabulary words whose spellings correspond to **words** in the multi-**word** spelling as the **acoustic** model for the new **word**. The system can then perform speech recognition by comparing acoustic signals against the **word** models of stored **vocabulary words**, including those **representing such** multi-**word** phrases. Preferably when a multi-**word** model is formed, **the** individual acoustic models concatenated are modified to represent the coarticulation which takes place between **words** spoken continuously. This can be done by representing word models as sequences of individual phonemes ...

...a user or be obtained from other programs running on the same computer as the **speech recognizer**, such as **from one** or more commands available in another program

Claims:

A computerized method of performing **speech recognition comprising** the steps of:storing, for each of a plurality of **vocabulary words**, an acoustic word model and a spelling;receiving the spelling of a phrase of...

...pattern matching the word signals against the word models of stored vocabulary words, including said **new** vocabulary **word**, to produces scores **indicating** the relative probability **that** a given **word** signal

corresponds to different ones of said stored **word** models;
and selecting one or more of said **vocabulary words** as most probably
corresponding to a given **word** signal as a function of said scores
produced by said **pattern matching**.>

19/3, K/5 (Item 5 from file: 350)
DI ALOG(R) File 350: Derwent WPI X
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0009454304 - Drawing available
WPI ACC NO: 1999-393933/199933
XRPX Acc No: N1999-294358

Voice activated text correction method for computer voice recognition system

Patent Assignee: INT BUSINESS MACHINES CORP (IBM)
Inventor: COE K; LEONTADES K

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5909667	A	19990601	US 1997812387	A	19970305	199933 B

Priority Applications (no., kind, date): US 1997812387 A 19970305

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5909667	A	EN	20	9	

Voice activated text correction method for computer voice recognition system

Alerting Abstract ...NOVELTY - An error word spoken by a user is received and identified by a **speech recognizing** application (26) and a **speech text processor** application (28). The identified word is matched with a suitably displayed word. One or more...

...DESCRIPTION OF DRAWINGS - The figure shows block diagram of the computer **voice recognition** system..

...26 **Speech recognition** engine application...

...28 **Speech text processor** application

Class Codes

International Classification (+ Attributes)
IPC + Level Value Position Status Version

... G10L-0015/22
... G10L-0015/00

Original Publication Data by Authority

Original Abstracts:

...comprised of "m" words and the value of m is preferably determined, based upon the **voice recognition** capabilities of a **particular voice recognition** engine associated with the dictation system. The greater the ability of the **speech recognition** engine to **recognize** and distinguish spoken **words**, the larger the **value** of m. A correction **vocabulary** is defined which **consists** of the plurality of **words** which are contained **within** the correction window and a plurality of correction commands. The **voice recognition** computer dictation **system is** configured for processing a spoken **utterance** which corresponds to an error word contained within the plurality of words highlighted in the...

Claims:

In a computer system (20) having an **operating system** (24), a memory (27), and processing means (26, 28) for receiving spoken words and

converting said spoken...

19/3, K/6 (Item 6 from file: 350)

DI ALOG(R) File 350: Derwent WPI X

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0008632386 - Drawing available

WPI ACC NO: 1998-169400/199815

XRFX Acc No: N1998-134450

Speech recognition manager for processing system - has speech processor using syntax file relating to defined context and changing file for context changing input, using processing system operating in accordance with one or more application programs responsive to input commands

Patent Assignee: VIRTUAL VISION INC (VIRT-N)

Inventor: CATALLO L R; MALLEY J A

Patent Family (3 patents, 21 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
WO 1998008215	A1	19980226	WO 1997US13021	A	19970724	199815 B
US 5867817	A	19990202	US 1996699632	A	19960819	199912 E
EP 979505	A1	20000216	EP 1997936202	A	19970724	200014 E
			WO 1997US13021	A	19970724	

Priority Applications (no., kind, date): US 1996699632 A 19960819

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
WO 1998008215	A1	EN	58	12		
National Designated States, Original: CA JP						
Regional Designated States, Original: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE						
EP 979505	A1	EN				PCT Application WO 1997US13021
Based on OPI patent WO 1998008215						
Regional Designated States, Original: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE						

Speech recognition manager for processing system..

...has speech processor using syntax file relating to defined context and changing file for context changing input, using...

Original Titles:

... SPEECH RECOGNITION MANAGER...

... Speech recognition manager...

... SPEECH RECOGNITION MANAGER

Alerting Abstract ...The speech recognition manager has a memory for storing data for several context states. The manager also has...

...ADVANTAGE - Allows words to have multiple meanings and improves detection by limiting dictionary to current context.

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G10L-0015/22 ...

... G10L-0015/26

G10L-0015/00 ...

Original Publication Data by Authority

Original Abstracts:

A **speech recognition** manager receives **representations** of one or more words from a speech decoding system (106) and interprets the received words...

...upon the current context state so as to provide extremely accurate, flexible, extendable and scalable **speech recognition** and interpretation. The **speech recognition** manager limits the number of words that the speech decoding system (106) can **recognize** in a given context state in order to increase the speed and accuracy of the **speech recognition process**. Whenever the **context state** changes, the manager loads a new list of words that can be recognized for the...

...into the speech decoding system (106) so that while the speed and accuracy of the **speech recognition process** is **increased**, the **total** grammatical structure recognized can be easily increased as well...

...A **speech recognition** manager receives representations of one or more words from a **speech** decoding system and interprets the received words based upon the current context state so as to provide extremely accurate, flexible, extendable and scalable **speech recognition** and interpretation. The **speech recognition** manager limits the number of words that the **speech** decoding system can recognize in a given context state in order to increase the speed and accuracy of the **speech recognition process**. Whenever the context state changes, the manager loads a new list of words that can be recognized for the new context state into the **speech decoding** system so that while the speed and accuracy of the **speech recognition process** is increased, the total grammatical structure **recognized** can be easily increased as well...

...A **speech recognition** manager receives representations of one or more words from a **speech** decoding system (106) and interprets the received words based upon the current context state so as to provide extremely accurate, flexible, extendable and scalable **speech recognition** and interpretation. The **speech recognition** manager limits the number of words that the **speech** decoding system (106) can **recognize** in a given context state in order to increase the speed and accuracy of the **speech recognition process**. Whenever the context state changes, the manager loads a new list of words that can be recognized for the new context state into the speech decoding system (106) so that while the speed and accuracy of the **speech recognition process** is increased, the total grammatical structure recognized can be easily increased as well.

Claims:

A **speech recognition** manager for a processing system operating in accordance with one or more application programs responsive to input commands, said manager receiving representations...

19/3, K/7 (Item 7 from file: 350)

DI ALOG(R) File 350: Derwent WPI X

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0007538844 - Drawing available

WPI ACC NO: 1996-152902/199616

XRPX Acc No: N1996-128436

Speech-activated information system - has word graph obtained by evaluation of individual words converted into concept graph evaluated for addressing response word data bank

Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHI G); PHILIPS CORP

INTELLECTUAL PROPERTY GMBH (PHI G); PHILIPS ELECTRONICS NV (PHI G);

PHILIPS GLOEI LAMPENFAB NV (PHI G); PHILIPS PATENTVERWALTUNG GMBH (PHI G);

US PHILIPS CORP (PHI G)

Inventor: AUST H

Patent Family (9 patents, 11 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 702353	A2	19960320	EP 1995202394	A	19950905	199616 B
DE 4432632	A1	19960321	DE 4432632	A	19940914	199617 E
JP 8106297	A	19960423	JP 1995235376	A	19950913	199626 E
EP 702353	A3	19971119	EP 1995202394	A	19950905	199816 E
US 5754736	A	19980519	US 1995526017	A	19950908	199827 E
TW 430768	A	20010421	TW 1995111641	A	19951103	200158 E
EP 702353	B1	20020116	EP 1995202394	A	19950905	200212 E
DE 59509996	G	20020221	DE 59509996	A	19950905	200221 E
			EP 1995202394	A	19950905	
KR 350002	B	20021226	KR 199529601	A	19950912	200336 E

Priority Applications (no., kind, date): DE 4432632 A 19940914; EP 1995202394 A 19950905

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 702353	A2	DE	10	5	
Regional Designated States, Original: AT BE CH DE FR GB IT LI NL					
DE 4432632	A1	DE	8	5	
JP 8106297	A	JA	8		
EP 702353	A3	EN			
TW 430768	A	ZH			
EP 702353	B1	DE			
Regional Designated States, Original: AT BE CH DE FR GB IT LI NL					
DE 59509996	G	DE			Application EP 1995202394
					Based on OPI patent EP 702353
KR 350002	B	KO			Previously issued patent KR 96011836

Original Titles:

... System and method for **outputting** synthetic **speech** in response to **input speech** signals...

... System and method for **outputting** synthetic **speech** in response to **input speech** signals...

... System and method for outputting spoken information in response to **input speech** signals.

Class Codes

... International Classification (Main): **G10L-011/00** ...

... **G10L-015/18**

International Classification (+ Attributes)

IPC + Level Value Position Status Version

... **G10L-0013/00** ...

... **G10L-0015/18** ...

... **G10L-0015/28**

... **G10L-0013/00** ...

... **G10L-0015/00**

Original Publication Data by Authority**Original Abstracts:**

... advance. To this end, the system and the method are subdivided into several, essentially independently **operating segments** with unambiguous interfaces. A first segment serves for the recognition of words and outputs

a...

...sequences, or also single words, are replaced by concepts in the concept graph. In a **further** segment the concepts in the concept graph are bridged and gaps between the concepts are filled. A speech model is taken into account for this operation. A stochastic attributed **grammar** is used to determine the concepts from the **word** graph **and** to determine the meaning of the **word** sequences **in** the concepts. Because irrelevant filler **words** in the **spoken** request are ignored early on, the computational **expenditure** is comparatively small despite the freely pronounced requests.

Claims:

...A system for **outputting speech** information in response to **input speech** signals, comprising first means for comparing the speech signals with stored reference signals which correspond...

...outputting words determined by the comparisons, together with a score and with statements as regards **starting point** and end point for **each word output**, and for storing the words **output** with the **statements** in order to form a word graph from consecutive words, second means for replacing predetermined...A system for outputting spoken information in response to **input speech** signals, comprising: first means for comparing the speech signals with stored reference signals which correspond...

...order to form a word graph from consecutive words, second means for replacing predetermined word **sequences in** the word graph by predetermined concepts with a score which is derived from the sum...

~~Non-Patent Literature Abstracts

File 2: INSPEC 1898-2008/ Mar W5
(c) 2008 Institution of Electrical Engineers

File 6: NTIS 1964-2008/ Apr W4
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File 8: Ei Compendex(R) 1884-2008/ Apr W2
(c) 2008 Elsevier Eng. Info. Inc.

File 34: Sci Search(R) Cited Ref Sci 1990-2008/ Apr W8
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File 35: Dissertation Abs Online 1861-2008/ Nov
(c) 2008 ProQuest Info&Learning

File 56: Computer and Information Systems Abstracts 1966-2008/ Mar
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File 57: Electronics & Communications Abstracts 1966-2008/ Mar
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File 95: TEME-Technology & Management 1989-2008/ Apr W1
(c) 2008 FIZ TECHNIK

File 98: General Sci Abs 1984-2008/ May
(c) 2008 The HW Wilson Co.

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(c) 2008 The HW Wilson Co.

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(c) 2008 The HW Wilson Co

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(c) 2002 The Gale Group

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(c) 2001 ProQuest Info&Learning

File 483: Newspaper Abs Daily 1986-2008/ Apr 26
(c) 2008 ProQuest Info&Learning

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(c) format only 2008 Dialog

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File 436: Humanities Abs 1984-2008/ Apr
(c) 2008 The HW Wilson Co

File 439: Arts&Humanities Search(R) 1980-2008/ Apr W8
(c) 2008 The Thomson Corp

Set	Items	Description
S1	219711	(SPEECH OR LANGUAGE OR VOICE OR AUDITORY) (2N) (RECOGNITION - OR RECOGNIZ? OR RECOGNIS? OR PROCESS? OR INPUT? OR OUTPUT? OR SYNTHES?)
S2	187407	GRAMMAR OR VOCABULARY OR DICTIONAR? OR LEXICON?
S3	844734	ENTRY OR ENTRIES OR WORD? ? OR UTTERANCE? ?
S4	10266126	FILE OR FILES OR FOLDER? ? OR PROGRAM? ? OR PROGRAMME OR APPLICATION? ? OR EXECUTABLE
S5	1655104	USER OR USERS OR CLIENT? ? OR SUBSCRIBER? ?
S6	27024	S5(4N) (SPEAK??? OR ENUNCIAT??? OR VOCALIZ??? OR SAYS OR START??? OR UTTER???)
S7	198067	S4(3N) (OPEN??? OR RUN OR RUNS OR EXECUT??? OR START??? OR LAUNCH??? OR ACCESS??? OR ACTIVAT???)
S8	31288	(VOICE OR LANGUAGE) (2N) (CONTROL? OR ACTIVAT? OR OPERAT? OR COMMAND?)

S9 156038 OPERATING) SYSTEM?
S10 546 AU=(MAJOR, A? OR MAJOR A? OR WANDINGER, M? OR WANDINGER M?)
S11 2 S10 AND S1
S12 2 RD (unique items)
S13 45662 S2 AND S3
S14 10869 S1 AND S13
S15 417 S6 AND S7
S16 1 S14 AND S15
S17 10291 S2 AND S3 AND S4
S18 2783 S17 AND S1
S19 2732 S8 AND S9
S20 4 S18 AND S19
S21 3 RD (unique items)
S22 20309 S1 AND S2
S23 989 S6 AND S3
S24 14 S23 AND (S7 OR S19)
S25 1 S24 AND S22
S26 10841 S3(5N)(LINK??? OR MATCH??? OR ASSIGN??? OR DESIGNAT??? OR -
ALLOCAT???)
S27 2391 S26 AND S4
S28 107 S14 AND S27
S29 0 S28 AND S15
S30 1 S28 AND S7
S31 1 S30 NOT (S25 OR S21 OR S16)
S32 1666 S1 AND S7
S33 23505 S3(5N)(SPEAK??? OR ENUNCIAT??? OR VOCALIZ??? OR SAYS OR ST-
AT??? OR UTTER???)
S34 13 S32 AND S33
S35 10 RD (unique items)
S36 10 S35 NOT (S31 OR S25 OR S21 OR S16)

12/3, K/1 (Item 1 from file: 34)

DIALOG(R) File 34: Sci Search(R) Cited Ref Sci
(c) 2008 The Thomson Corp. All rts. reserv.

15647910 Genuine Article#: 091UQ No. References: 45

**Title: Event-related brain potentials as a measure of performance on
WSC-III and WAIS-R NI similarities sub-tests**

Author(s): Connolly JF (REPRINT) ; Marchand Y; Major A; D'arcy RCN
Corporate Source: Dalhousie Univ, Cognit Clin Neurosci Unit, Dept Psychol,
Life Sci Ctr, Halifax/ NS B3H 4J1/ Canada/ (REPRINT); Dalhousie
Univ, Cognit Clin Neurosci Unit, Dept Psychol, Life Sci Ctr, Halifax/ NS
B3H 4J1/ Canada/; Dalhousie Univ, Dept Med, Halifax/ NS B3H 3J5/ Canada/;
Dalhousie Univ, Dept Pediat, Halifax/ NS B3H 3J5/ Canada/; Dalhousie
Univ, Div Psychiat, Halifax/ NS B3H 3J5/ Canada/ (john.connolly@dal.ca)
Journal: JOURNAL OF CLINICAL AND EXPERIMENTAL NEUROPSYCHOLOGY, 2006, V28,
N8 (NOV), P1327-1345

ISSN: 1380-3395 Publication date: 20061100

Publisher: TAYLOR & FRANCIS INC, 325 CHESTNUT ST, SUITE 800, PHILADELPHIA,
PA 19106 USA

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

... Identifiers-- RECEPTIVE VOCABULARY; TOKEN TEST; INNOVATIVE METHOD; WORD
RECOGNITION; APHASIA; **SPEECH**; STROKE; COMPREHENSION; DETERMINANTS;
P300

12/3, K/2 (Item 2 from file: 34)

DIALOG(R) File 34: Sci Search(R) Cited Ref Sci
(c) 2008 The Thomson Corp. All rts. reserv.

11585037 Genuine Article#: 671AG No. References: 45

Title: Electrophysiological assessment of language function following

stroke

Author(s): D'Arcy RCN (REPRI NT) ; Marchand Y; Eskes GA; Harrison ER; Phillips SJ; **Major A** ; Connolly JF
Corporate Source: CNR, Inst Biodiagnost, 435 Ellice Ave/ Winnipeg/ MB R3B 1Y6/ Canada/ (REPRI NT); Dalhousie Univ, Dept Psychol, Cognit Clin Neurosci Unit, Winnipeg/ MB R3B 1Y6/ Canada/; CNR, Inst Biodiagnost Atlantic, Halifax/ NS/ Canada/; Queen Elizabeth II Hlth Sci Ctr, Nova Scotia Rehabil Ctr, Halifax/ NS/ Canada/; Dalhousie Univ, Dept Psychiat, Halifax/ NS/ Canada/; Queen Elizabeth II Hlth Sci Ctr, Halifax Infirmary Dept Med, Div Neurol, Halifax/ NS/ Canada/; Dalhousie Univ, IWK Hlth Ctr, Halifax/ NS/ Canada/
Journal: CLINICAL NEUROPHYSIOLOGY, 2003, V114, N4 (APR), P662-672
ISSN: 1388-2457 Publication date: 20030400
Publisher: ELSEVIER SCIENCE IRELAND LTD, CUSTOMER RELATIONS MANAGER, BAY 15, SHANNON INDUSTRIAL ESTATE CO, CLARE, IRELAND
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)
Author(s): D'Arcy RCN (REPRI NT) ; Marchand Y; Eskes GA; Harrison ER; Phillips SJ; **Major A** ; Connolly JF
... Identifiers-- BRAIN POTENTIALS; RECEPTIVE VOCABULARY; **WORD RECOGNITION** ; APHASIA; **SPEECH**; COMPREHENSION; VALIDATION; SCALE; FORM

16/3, K/1 (Item 1 from file: 256)

DI ALOG (R) File 256: TecInfoSource
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00152862 DOCUMENT TYPE: Review

PRODUCT NAMES: VoiceXML (842087)

TITLE: VoiceXML lets you talk to computers

AUTHOR: Larson, James

SOURCE: Network World, v21 n12 p63(1) Mar 22, 2004

ISSN: 0887-7661

HOME PAGE: <http://www.nwfusion.com>

FILE SEGMENT: Review

RECORD TYPE: Product Analysis

REVISION DATE: 20080300

... Consortium, which is the equivalent of a de facto Web standard. The standard adds a **speech recognition grammar** format for **words** and phrases spoken in response to prompts. The voice browser uses a speech server attached...

... provider's facility. Users dial into a speech server that downloads VoiceXML 2.0 scripts, **grammar** formats, and audio files from an application server. The voice browser interprets the VoiceXML 2...

... a voice message that can be prerecorded or in text sent through a text-to- **speech synthesizer**. The **user** responds by **speaking** or by touching the buttons of a touchtone phone, and the public switched telephone network transfers the speech and tones from the phone, while the **speech server processes** it. The **voice** browser gains **access** to **applications** through the Internet.

DESCRIPTORS: Communications; Communications Interfaces; Interfaces; **Speech Recognition** ; Standards; Telecommunications; XML

21/3, K/1 (Item 1 from file: 6)

DI ALOG (R) File 6: NTIS

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1975723 NTIS Accession Number: AD-A311 464/2

Implementation and Evaluation of Commercial Off-The-Shelf (COTS) Voice Recognition Software as an Input Device in a Windows-Type Environment
(Master's thesis)

West, T. J.

Naval Postgraduate School, Monterey, CA.

Corp. Source Codes: 019895000; 251450

Mar 96 85p

Languages: English Document Type: Thesis

Journal Announcement: GRAI 9624

Original contains color plates; All DTIC/NTIS reproductions will be in black and white.

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A06/MF A01

Implementation and Evaluation of Commercial Off-The-Shelf (COTS) Voice Recognition Software as an Input Device in a Windows-Type Environment

This thesis investigates the implementation and evaluation of commercial off-the-shelf (COTS) voice recognition as an input interface within a windows-type environment. The three software packages implemented and...

... Windows version 1.3, VoicePilot 2.0 (both manufactured by Dragon Systems, Inc.), and IN3 Voice Command for SPARCstation version 2.2.2 by Command Corp. VoicePilot and DragonDictate are both installed...

... IN3 is installed on a SPARCstation running OpenWindows 3 and SunOS 4.1.3. Several applications are manipulated using voice recognition with these three software packages. The results of this study show that DragonDictate has the...

Descriptors: *Software engineering; *Speech recognition; Data bases; Algorithms; Signal processing; Command control communications; Neural nets; Performance(Engineering); Off the shelf equipment; Accuracy; Theses; Input output processing; Error analysis; Military applications; Operating systems (Computers); Words (Language); Pattern recognition; Speech analysis; Systems analysis; Vocabulary; Computer program verification; Analog to digital converters; Voice communications; Word recognition

21/3, K/2 (Item 1 from file: 8)

DI ALOG(R) File 8: Ei Compendex(R)

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04137335 E.I. Monthly No: EI 8208069159 E.I. Yearly No: EI 82050844

Title: NEW COMPILER FOR LINGUISTICS.

Author: Muraki, Kazunori

Corporate Source: NEC, Jpn

Source: NEC Research & Development v 62 Jul 1981 p 99-109

Publication Year: 1981

CODEN: NECRAU ISSN: 0547-051X

Language: ENGLISH

... Abstract: rule-based parser NECLIN (NEW Compiler for Linguistics), which elaborately utilizes semantic information for natural language parsing control, is presented. It is widely recognized that natural language analysis be based not only on lexical and grammatical information, but also on semantic control over the applying parsing rules. The semantic control is realized by the embedded program in each grammar rule. The parsing process proceeds in a left to right and bottom-up manner, selecting...

...partial parsed trees. In order to present an incorrect rule selection, NECLIN invokes the embedded **program** which decides whether the rule **application** is allowed or not. The decision is made based on the semantic information as well as the grammatical abstracted from already parsed **words**, partial parsed tree, or the **words** to be parsed afterward. 8 refs.
...Descriptors: Language Translation and Linguistics; COMPUTER OPERATING SYSTEMS --...

... **Program** Compilers; COMPUTER PROGRAMMING LANGUAGES
Identifiers: NATURAL LANGUAGE; PARSING CONTROL

21/3, K/3 (Item 1 from file: 98)
DIALOG(R) File 98: General Sci Abs
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03813038 H.W. WILSON RECORD NUMBER: BGS1 98063038
Hello, is this the Web?
AUGMENTED TITLE: dictation software; VoxML computer language
Gibbs, W. Wyt
Scientific American (Sci Am) v. 279 no6 (Dec. '98) p. 48
SPECIAL FEATURES: il ISSN: 0036-8733
LANGUAGE: English
COUNTRY OF PUBLICATION: United States

ABSTRACT: The writer discusses **speech recognition** technology. Since Apple first launched **voice control** of its **operating system** in 1993, the method has used every last processor cycle and bit of memory available in an attempt to match people's speech to **words** in its **dictionary**. Promoters tend to overlook three basic problems that will probably prevent dictation software from ever...

DESCRIPTORS:
Computer **programs**; **Speech processing** systems; Computer languages
(Programming)

25/3, K/1 (Item 1 from file: 256)
DIALOG(R) File 256: TechInfoSource
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00152862 DOCUMENT TYPE: Review

PRODUCT NAMES: **VoiceXML (842087)**

TITLE: **VoiceXML lets you talk to computers**
AUTHOR: Larson, James
SOURCE: Network World, v21 n12 p63(1) Mar 22, 2004
ISSN: 0887-7661
HOMEPAGE: <http://www.nwfusion.com>

FILE SEGMENT: Review
RECORD TYPE: Product Analysis

REVISION DATE: 20080300

...Consortium, which is the equivalent of a de facto Web standard. The standard adds a **speech recognition grammar** format for **words** and phrases spoken in response to prompts. The voice browser uses a speech server attached...

...provider's facility. Users dial into a speech server that downloads VoiceXML 2.0 scripts, **grammar** formats, and audio files from an

application server. The voice browser interprets the VoiceXML 2...

...a voice message that can be prerecorded or in text sent through a text-to- **speech synthesizer**. The **user** responds by **speaking** or by touching the buttons of a touchtone phone, and the public switched telephone network transfers the speech and tones from the phone, while the **speech server processes** it. The **voice browser** gains access to **applications** through the Internet.

DESCRIPTORS: Communications; Communications Interfaces; Interfaces;
Speech Recognition; Standards; Telecommunications; XML

31/3, K/1 (Item 1 from file: 144)

DI ALOG(R) File 144: Pascal

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10738464 PASCAL No.: 93-0247807

An operational system for subject switching between controlled vocabularies

SILVESTER J P; KLINGBIEL P H

NASA, cent. aerospace information, Airport MD 21240, USA

Journal: Information processing & management, 1993, 29 (1) 47-59

Language: English

... authorized terms is described. This little-touted system which has been operating successfully since 1983, **matches** concepts, rather than **words**. Subject Switching uses a translation table, known as the Lexical **Dictionary**, **accessed** by a **program** that determines which rules to follow in making the transition from DTICs to NASA...

English Descriptors: Indexing; Computer aid; Controlled **vocabulary** ;
Concept; Information conversion; Automatic analysis; Indexer;
Productivity; Profit; **Language processing** ; Natural **language** ;
Information language; Switching; Knowledge base; System evaluation;
Computer aided indexing; Subject content

36/3, K/1 (Item 1 from file: 2)

DI ALOG(R) File 2: INSPEC

(c) 2008 Institution of Electrical Engineers. All rts. reserv.

06446979 INSPEC Abstract Number: A9702-8736-010

Title: Effects of length and linguistic complexity on temporal acoustic measures in apraxia of speech

Author(s): Strand, E. A.; McNeil, M R.

Author Affiliation: Dept. of Speech & Hearing Sci., Washington Univ., Seattle, WA, USA

Journal: Journal of Speech and Hearing Research vol.39, no.5 p. 1018-33

Publisher: American Speech-Language-Hearing Assoc,

Publication Date: Oct. 1996 Country of Publication: USA

CODEN: JSPHAH ISSN: 0022-4685

SI CI: 0022-4685(199610)39:5L:1018:ELLC;1-J

Material Identity Number: J205-96006

U.S. Copyright Clearance Center Code: 0022-4685/96/3905-1018

Language: English

Subfile: A

Copyright 1996, IEEE

... Abstract: length and linguistic utterance types on temporal acoustic characteristics of the imitative speech of apraxic **speakers**. Vowel duration and two between- **word** segment durations were examined during the production of three response types: words, word-strings, and...

... conditions for sentences, yielding eight experimental conditions. Apraxic speakers exhibited significantly longer vowel and between- **word** segment durations than control **speakers** in all conditions. Apraxic speakers consistently produced longer vowel and between-word segment durations in...

... intrasubject and intersubject variability for between-word segment durations were substantially greater for the apraxic **speakers** in sentences compared to **word** conditions, whereas control **speakers** exhibited greater homogeneity in sentence production. The differences in duration and variability in sentence production versus word or word-string production imply different mechanisms for **executing** motor **programs** for varying linguistic stimuli.

... Descriptors: **speech processing**

36/3, K/2 (Item 2 from file: 2)

DI ALOG(R) File 2: INSPEC

(c) 2008 Institution of Electrical Engineers. All rts. reserv.

06389831 INSPEC Abstract Number: A9622-4370F-002, B9611-6130-015, C9611-5260S-011

Title: A review of large-vocabulary continuous-speech

Author(s): Young, S.

Author Affiliation: Dept. of Eng., Cambridge Univ., UK

Journal: IEEE Signal Processing Magazine vol.13, no.5 p.45-57

Publisher: IEEE,

Publication Date: Sept. 1996 Country of Publication: USA

CODEN: ISPRE6 ISSN: 1053-5888

SI CI: 1053-5888(199609)13:5L:45:RLVC;1-G

Material Identity Number: C648-96005

U.S. Copyright Clearance Center Code: 1053-5888/96/\$5.00

Language: English

Subfile: A B C

Copyright 1996, IEE

Abstract: Considerable progress has been made in **speech - recognition** technology and nowhere has this progress been more evident than in the area of large-vocabulary recognition (LVR). Laboratory systems are capable of transcribing continuous speech from any **speaker** with average **word**-error rates between 5% and 10%. If speaker adaptation is allowed, then after 2 or ...

... for most speakers. LVR systems had been limited to dictation applications since the systems were **speaker** dependent and required **words** to be spoken with a short pause between them. However, the capability to **recognize** natural continuous- **speech input** from any speaker **opens** up many more **applications**. This article discusses the principles and architecture of LVR systems and identifies the key issues...

... Descriptors: **speech processing** ; ...

... **speech recognition**

... Identifiers: **speech - recognition** technology

36/3, K/3 (Item 3 from file: 2)

DI ALOG(R) File 2: INSPEC

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06123145 INSPEC Abstract Number: B9601-6130-149, C9601-5260S-033

Title: Large vocabulary speech recognition

Author(s): Young, S.

Author Affiliation: Dept. of Eng., Cambridge Univ., UK

Journal: Acoustics Bulletin vol.20, no.5 p.5-12
Publication Date: Sept.-Oct. 1995 Country of Publication: UK
CODEN: ACOBEP ISSN: 0308-437X
Language: English
Subfile: B C
Copyright 1995, IEE

Title: Large vocabulary speech recognition

Abstract: Considerable progress has been made in **speech recognition** technology over the last few years and nowhere has this progress been more evident than...

... Large Vocabulary Recognition (LVR). Current laboratory systems are capable of transcribing continuous speech from any **speaker** with average **word** error rates of between 5% and 10%. If speaker adaptation is allowed then after 2...

... for most speakers. Hitherto, LVR systems have been limited to dictation applications since they were **speaker** dependent and they required **words** to be spoken with a short pause between them. The capability to **recognise** natural continuous **speech input** from any speaker, however, **opens** up many more **applications** and as a result LVR technology appears to be on the brink of widespread deployment...

Descriptors: **speech recognition**

Identifiers: large vocabulary **speech recognition** ; ...

... natural continuous **speech input**

36/3, K/4 (Item 1 from file: 6)

DI ALOG(R) File 6: NTIS

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0983555 NTIS Accession Number: AD-A118 444/9/XAB

Voice Verification Upgrade

(Final technical rept. 12 May 80-31 Dec 81)

Davis, R. L. ; Sinnamon, J. T. ; Cox, D. L.

Texas Instruments, Inc., Dallas.

Corp. Source Codes: 013046000; 347650

Sponsor: Rome Air Development Center, Griffiss AFB, NY.

Report No.: TI-08-82-07; RADG-TR-82-139

Jun 82 246p

Languages: English

Journal Announcement: GRAI 8225

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A11/MF A01

...two major objectives. The first was to build, test, and deliver to the government an **entry** control system using **speaker** verification (voice authentication) as the mechanism for verifying the user's claimed identity. This system...

... scale to prevent more than one user from gaining access with one verification (tailgating). The **speaker** verification part of the **entry** control system contained all the updates and embellishments to the algorithm that was developed earlier...

Descriptors: ***Speech recognition** ; ***Voice** communications; ***Identification** systems; ***Access** ; ***Computer programs** ; **Algorithms**; **Validation**; **Confidence level**

36/3, K/5 (Item 1 from file: 8)

DI ALOG(R) File 8: Ei Compendex(R)

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11772933 E.I. No: EI P073110714622

Title: Short message dictation on Symbian series 60 mobile phones

Author: Karpov, E.; Kiss, I.; Leppanen, J.; Qsen, J.; Qria, D.; Sivadas, S.; Tian, J.

Corporate Source: Nokia Research Center Multimedia Technologies Laboratory, 33720 Tampere, Finland

Conference Title: ICM'06: 8th International Conference on Multimodal Interfaces

Conference Location: Banff, AB, Canada Conference Date: 20061102-20061104

E.I. Conference No.: 69919

Source: ICM'06: 8th International Conference on Multimodal Interfaces, Conference Proceeding ICM'06: 8th International Conference on Multimodal Interfaces, Conference Proceedings 2006.

Publication Year: 2006

ISBN: 9781595935410

DOI: 10.1145/1180995.1181020

Language: English

...Abstract: devices is a challenging task. First, it involves memory and CPU-efficient implementation of robust **speech recognition** algorithms that are generally resource demanding. Secondly, the acoustic and language models employed in the...

...correction, and must be suitable for a mobile usage scenario. In this demonstrator, an embedded **speech recognition** system for short message (SMS) dictation in US English is presented. The system is running...

...are small, 2 and 2.5 megabytes, respectively. After a short enrollment session, most native **speakers** can achieve a **word** accuracy of over 90% when dictating short messages in quiet or moderately noisy environments. 2

...Descriptors: *Mobile phones; Data storage equipment; Dictating machines; Error correction; Flash memory; Message passing; Natural **language processing** systems; **Program** processors; Random **access** storage; **Speech recognition**

Identifiers: Short message dictation; Challenging task; **Speech recognition** algorithms; **Speech language**; Native speakers

36/3, K/6 (Item 1 from file: 34)

DI ALOG(R) File 34: Sci Search(R) Cited Ref Sci

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16992811 Genuine Article#: 218BJ No. References: 47

Title: Neural characteristics of successful and less successful speech and word learning in adults

Author(s): Wong PCM (REPRI NT) ; Perrachione TK; Parrish TB

Corporate Source: Northwestern Univ, Dept Commun Sci & Disorders, Inst Neurosci, 2240 Campus Dr/Evanston//IL/60208 (REPRI NT); Northwestern Univ, Dept Commun Sci & Disorders, Inst Neurosci, Evanston//IL/60208; Northwestern Univ, Dept Linguist, Evanston//IL/; Northwestern Univ, Cognit Sci Program Evanston//IL/; Northwestern Univ, Dept Radiol, Chicago//IL/60611; Northwestern Univ, Dept Biomed Engn, Chicago//IL/60611

Journal: HUMAN BRAIN MAPPING, 2007, V28, N10 (OCT), P995-1006

ISSN: 1065-9471 Publication date: 20071000

Publisher: WILEY-LISS, DIV JOHN WILEY & SONS INC, 111 RIVER ST, HOBOKEN, NJ 07030 USA

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: report a study assessing the neural correlates of learning to

use these pitch patterns in **words** by English- **speaking** adults who had no previous exposure to such usage. Before and after training, subjects discriminated...
...they learned while blood oxygenation levels were measured using fMRI. Subjects who mastered the learning **program** showed increased **activation** in the left posterior superior temporal region after training, while subjects who plateaued at lower...

36/3, K/7 (Item 2 from file: 34)
DI ALOG(R) File 34: Sci Search(R) Cited Ref Sci
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09452328 Genuine Article#: 405GR No. References: 112
Title: Voice access of global information for broad-band wireless: Technologies of today and challenges of tomorrow
Author(s): Lee LS (REPRI NT) ; Lee Y
Corporate Source: Natl Taiwan Univ, Dept Elect Engn, Taipei 10617//Tai wan/ (REPRI NT); Natl Taiwan Univ, Dept Elect Engn, Taipei 10617//Tai wan/; Natl Taiwan Univ, Inst Commun Engn, Taipei 10617//Tai wan/
Journal: PROCEEDINGS OF THE IEEE, 2001, V89, N1, SI (JAN), P41-57
ISSN: 0018-9219 Publication date: 20010100
Publisher: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 345 E 47TH ST, NEW YORK, NY 10017-2394 USA
Language: English Document Type: REVIEW (ABSTRACT AVAILABLE)

... Abstract: approaches for accessing the network will be via human voice, and the integration of spoke **language processing** technologies with broad-band wireless technologies will be a key to the evolution of a...

... paper of offers a vision of the above concept. Technical considerations and some typical example **applications** of **accessing** the information and services ruing voice in a broad-band wireless environment are discussed. Fundamentals of spoken **language processing** technologies that are crucial in such a broad-band wireless environment pre briefly reviewed Technical...

... Identifiers-- CONTINUOUS- **SPEECH RECOGNITION** ; MAXIMUM LIKELIHOOD- ESTIMATION; SOFTWARE RADIO ARCHITECTURE; ENHANCED DATA RATES; **SPEAKER ADAPTATION**; SPOKEN- **LANGUAGE** ; **WORD RECOGNITION** ; MODEL; EVOLUTION; IMF-2000

36/3, K/8 (Item 1 from file: 99)
DI ALOG(R) File 99: Wilson Appl. Sci & Tech Abs
(c) 2008 The HWWilson Co. All rts. reserv.

1155784 H. W. WILSON RECORD NUMBER: BAST94024366
Voice recognition for Windows
AUGMENTED TITLE: ExecuVoice from Media Vision, VoiceAssist from Creative Labs, Voice Blaster from Covox, and Rover from Digital Soup
Davids, Noah;
Computer v. 27 (Mar. '94) p. 100-3
DOCUMENT TYPE: Product Evaluation ISSN: 0018-9162

Voice recognition for Windows

ABSTRACT: Four **speaker** -dependent, isolated **word voice - recognition** products designed for Microsoft **Windows** are reviewed. The retail price of Media Vision's ExecuVoice...

... was the most useful feature, but holding the microphone was cumbersome. He was able to **start** all the **applications** reviewed with ExecuVoice. However, he found Voice Blaster and Rover a little cumbersome.

DESCRIPTORS: ... Automatic **speech recognition** devices;

36/3, K/9 (Item 1 from file: 144)

DI ALOG(R) File 144: Pascal

(c) 2008 INIST/CNRS. All rts. reserv.

13671707 PASCAL No.: 98-0379788

Communication system for people with physical disability using voice recognizer

YASUDA S; OKAMOTO A; HASEGAWA H; MEKADA Y; KASUGA M; KAMATA K

Ricoh Co, Ltd, Yokohama-shi, Japan

Proceedings of the 1997 International Technical Conference on Circuits/Systems, Computers and Communications, ITC-CSCC (Okinawa, Jpn) 1997-07-14/1997-07-16

Journal: IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 1998, v E81-A (6) 1097-1104
Language: English

Communication system for people with physical disability using voice recognizer

... point of view, we propose a multi-modal communication system that is composed of a **voice recognizer**, a pointing device, and a text composer. This system intend to improve the man-machine interface for people with physical disability. In this system, our **voice recognition** technology plays a key role in providing a good interface between disabled people and the...

... to suffer from muscular dystrophy. And he is able to move only his fingers and **speak** command **words** with the assistance of a respirator.

English Descriptors: **Voice recognizer**; Multi modal interface;

Application; **Voice activated input devices**; **Handicapped persons**; Electronic mail; Interfaces (computer); Personal computers; Multimedia systems; Database systems; **Speech recognition**; Experiments

36/3, K/10 (Item 1 from file: 483)

DI ALOG(R) File 483: Newspaper Abs Daily

(c) 2008 ProQuest Info&Learning. All rts. reserv.

05866547 SUPPLIER NUMBER: 48485699

This colum was written ViaVoice

Levitus, Bob

Houston Chronicle, p 5

Jan 28, 2000

NEWSPAPER CODE: HC

; Newspaper article

LANGUAGE: English

RECORD TYPE: ABSTRACT

... ABSTRACT: testing IBM's new ViaVoice Millennium Edition for Macintosh.

This program is a new continuous **voice recognition** program that understands **words** as you **speak** them, then types them into its built-in word processor, where they appear on screen...

...the software took only a couple of minutes and a reboot. However, training ViaVoice to **recognize my voice** was another story completely. When you first **start** the **program**, it presents you with an "Analyze My Voice Assistant" that helps the program learn to **recognize** your **speech**. You read a story and the program learns how your voice sounds when you **speak** those particular **words**. Unfortunately, the assistant froze twice during the training process, forcing a hard restart both times...

~~Non-Patent Literature Full-Text

File 9: Business & Industry(R) Jul/1994-2008/ Apr 24
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File 15: ABI/Inform(R) 1971-2008/ Apr 28
(c) 2008 ProQuest Info&Learning

File 16: Gale Group PROMT(R) 1990-2008/ Apr 22
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(c) 2008 The Gale group

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(c) 2008 The Gale Group

File 80: TGG Aerospace/Def. Mkts(R) 1982-2008/ Apr 22
(c) 2008 The Gale Group

File 88: Gale Group Business A. R. T. S. 1976-2008/ Apr 08
(c) 2008 The Gale Group

File 112: UBM Industry News 1998-2004/ Jan 27
(c) 2004 United Business Media

File 141: Readers Guide 1983-2008/ Mar
(c) 2008 The HW Wilson Co

File 148: Gale Group Trade & Industry DB 1976-2008/ Apr 09
(c) 2008 The Gale Group

File 160: Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group

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File 696: Dialog Telecom Newsletters 1995-2008/ Apr 25
(c) 2008 Dialog

File 810: Business Wre 1986-1999/ Feb 28
(c) 1999 Business Wre

File 813: PR Newswire 1987-1999/ Apr 30
(c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	292846	(SPEECH OR LANGUAGE OR VOICE OR AUDITORY) (2N) (RECOGNITION - OR RECOGNIZ? OR RECOGNIS? OR PROCESS? OR INPUT? OR OUTPUT? OR SYNTHES?)
S2	435523	GRAMMAR OR VOCABULARY OR DICTIONAR? OR LEXICON?
S3	8496659	ENTRY OR ENTRIES OR WORD? ? OR UTTERANCE? ?
S4	31514281	FILE OR FILES OR FOLDER? ? OR PROGRAM? ? OR PROGRAMME OR APPLICATION? ? OR EXECUTABLE

S5 15995033 USER OR USERS OR CLIENT? ? OR SUBSCRIBER? ?
S6 629913 S5(4N) (SPEAK??? OR ENUNCIAT??? OR VOCALIZ??? OR SAYS OR ST-
AT??? OR UTTER???)
S7 2853418 S4(3N) (OPEN??? OR RUN OR RUNS OR EXECUT??? OR START??? OR -
LAUNCH??? OR ACCESS??? OR ACTIVAT???)
S8 159972 (VOICE OR LANGUAGE) (2N) (CONTROL? OR ACTIVAT? OR OPERAT? OR
COMMAND?)
S9 1372913 OPERATING() SYSTEM?
S10 25 AU=(MAJOR, A? OR MAJOR A? OR WANDINGER, M? OR WANDINGER M?)
S11 0 S10 AND S1
S12 0 S10 AND S9
S13 527230 S3(15N) S4
S14 19204 S1(8S) S2
S15 4702 S6(20N) S7
S16 44 S14(8S) S15
S17 23 RD (unique items)
S18 4738 S8(20N) S9
S19 64656 S3(5N) (LINK??? OR MATCH??? OR ASSIGN??? OR DESIGNAT??? OR -
ALLOCAT???)
S20 9201 S19(20N) S4
S21 114 S14(8S) S18
S22 27 S21(8S) S7
S23 16 RD (unique items)
S24 16 S23 NOT S16
S25 10763 S1(30N) S2
S26 88 S20(8S) S25
S27 32 S26(8S) S7
S28 21 RD (unique items)
S29 19 S28 NOT PY>2002

17/3, K/1 (Item 1 from file: 15)

DI ALOG(R) File 15: ABI/Inform(R)

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01414543 00065530

Dragon Systems: Continuous voice-recognition software

O Heir, Jeff

Computer Reseller News n730 PP: 16 Apr 7, 1997

ISSN: 0893-8377 JRNL CODE: CRN

WORD COUNT: 504

TEXT: DRAGON SYSTEMS today unveiled Naturally Speaking, a continuous **voice** - **recognition** software application geared toward general and vertical corporate markets. For VARs, the improvements in the technology could help jump- **start** speechrecognition **applications** into mainstream businesses.

During a demonstration at the World Trade Center held last week in New York, Naturally **Speaking** allowed the **user** to do just that.

"I ... used ... to ... talk... like ... this. ... One ... word ... at ... a ... time...

...each word and even allowed Gould to verbally correct or change words, select from a **dictionary** and choose fonts. The software hardly failed at picking up the correct words and even...
...user's voice, officials said.

"From a reseller perspective, this is the Holy Grail of **speech** **recognition**. This is prime time," said Michael Mardini, vice president of Talk Technology Inc., a New...

...sales to grow beyond vertical markets.

Mardini and Laith Amity, director of Talk Wite, a **speech - recognition** systems integrator in Oxford, England, said they each sold about 1,000 units of DragonDictate...

17/3, K/2 (Item 2 from file: 15)

DI ALOG(R) File 15: ABI/Inform(R)

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00828273 94-77665

Survey of current speech technology

Rudnick, Alexander I; Hauptmann, Alexander G; Lee, Kai-Fu

Communications of the ACM v37n3 PP: 52-57 Mar 1994

ISSN: 0001-0782 JRNL CODE: ACM

WORD COUNT: 3100

TEXT: **Speech recognition** and **speech synthesis** are technologies of particular interest for their support of direct communication between humans and computers...

...at which they are highly skilled. Both manipulate speech in terms of its information content; **recognition** transforms human **speech** into text to be used literally (e.g., for dictation) or interpreted as commands to control applications, and synthesis allows the generation of spoken utterances from text.

Automatic **speech recognition** (ASR) has gained a significant amount of commercial success due to its demonstrable increase in...

...ASR are dictation, personal computer interfaces, automated telephone services, and special purpose industrial applications.

Large **vocabulary** dictation: "unrestricted" dictation (e.g., business letters or newspaper articles) and structured report generation (e...

...with the system for an extended period of time. Discrete-word systems are prevalent. Current **vocabulary** capacities range up to 40,000 words. These systems are meant to be used under...

...system is increased by its ability to adapt to an individual's voice (speaker adaptation), **vocabulary** (new word learning), and tasks (language model adaptation).

For interfacing with personal computers, the "electronic...

...computer interface. Some of the nearer-term opportunities include:

* Speech as a shortcut. Rather than **opening a file** by traversing many levels of hierarchy, a **user** just **says** "OPEN BUDGET."

* Hands busy/eyes busy. Change the font style while a user is typing...
...use or even nonexistent, thereby making speech a competitive alternative.

The main challenge for desktop **speech recognition** is the current existence of a mature and efficient alternative -- the keyboard (and pointer). It...

...management, appropriate user feedback, as well as integration into the computing environment.

In the future, **speech recognition** might be combined with natural **language processing** in more ambitious tasks, such as information retrieval or delegation interfaces. The proper use of...

...20 words. Significant functionality does not require large vocabularies; some currently deployed systems provide a **vocabulary** size of two words ("yes" and "no"). In addition to poor control over signal quality...

...prompts (known as "barge in"), or they will embed their responses in other, out-of-**vocabulary** speech ("yes, please"). Word-spotting techniques can be used to achieve acceptable recognition accuracies [15... and are amenable to a number of constraint-based techniques that increase the success of **voice input**. Speaker-dependent recognition is sufficient for many applications, since a particular device will be used...

17/3, K/3 (Item 3 from file: 15)
DI ALOG(R) File 15: ABI/Inform(R)
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00622631 92-37733
Voice Processing Systems
Helms, Glenn L.
Internal Auditor v49n3 PP: 62-68 Jun 1992
ISSN: 0020-5745 JRNL CODE: IAU
WORD COUNT: 3062

...TEXT: keying in a password. Any individual who has knowledge of the password can gain unauthorized **access** to **files**. In order to **access** a voice system the **user** is required to **speak** a password. A voiceprint is created from the spoken password and compared with a stored...

...and retail stores, have routine customer inquiries answered by a voice system. Many banks have **voice output** systems which permit a customer to inquire as to the balance in a checking account...

...amounts, payment due dates, and amounts and types of coverage. Some major retail chains utilize **voice output** to contact customers when mail-order items have arrived and can be picked up at...

...executing other transactions at any time, rather than just during regular business hours.

* CONTROLS OVER **VOICE INPUT**

Speech recognition systems are not immune to problems. For example, certain user speech characteristics might affect the...

...user option might be to quickly retrain a speaker-dependent system that has a small **vocabulary**.

Speaker-independent systems that are available to the general public probably should have a limited **vocabulary**. Inadequate **grammar** skills and colloquialisms can create problems, such as when a user states: "Transfer four hunderd..."

...as "Transfer four hundred dollars and twenty five cents from savings to checking." If a **speech recognition** problem occurs in a speaker-independent system available for the general public, processing can be...

...noisy office or factory environment can have an adverse effect on the reliability of some **speech recognition** systems. In such cases, developers should consider acquiring directional microphones which filter out irrelevant background sounds.

Speech recognition systems also have behavioral implications. Users who

train a speaker-independent system typically talk in a more formal voice when they construct a **vocabulary**. When the system becomes operational and the user speaks in his/her natural voice with...

...technology suggest that users may require an inordinate amount of time to create a large **vocabulary** in a speaker-dependent system and that the trainer might forget which words are contained in a large **vocabulary** thereby creating frustrating situation. These critics call for a standard **vocabulary** to be used across systems. For example, "rub out" consistently means "delete" whenever a user...

17/3, K/4 (Item 1 from file: 16)
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06151018 Supplier Number: 53939885 (USE FORMAT 7 FOR FULLTEXT)

NUANCE BEEFS UP PRODUCT LINE FOR V-COMMERCE.

Computergram International, pNA

Feb 23, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 517

(USE FORMAT 7 FOR FULLTEXT)
TEXT:

Speech recognition software and systems company Nuance Communications Inc introduced two new products Monday as part of...

...or voice-activated commerce) Alliance - has announced Nuance 6.2, an upgrade to its natural **language speech recognition** server, as well as Nuance Express, which is billed as a low-cost offering built...

...product also supports Nuance SpeechObjects(TM), a set of reusable components for rapid development of **speech recognition** applications. Other enhancements include single phrase correction and the ability to personalize applications on the...

...entry-level applications. It is targeted at less complex, menu-driven, systems that require a **vocabulary** of less than twenty items and is said to allow programmers with no prior speech...

...a cost-effective upgrade path for a customer looking to start with an entry-level **speech recognition** system built on Nuance Express and then gradually migrate to a more sophisticated, larger **vocabulary** system based on Nuance 6.2. Developers only need to learn one API set and...

...more complex application components to an entry-level system as required. Installation of a new **speech recognition** server is not needed, the company says, and a credit towards complete Nuance 6.2...

...start at \$3,000, and are priced according to the complexity and capacity of the **application**. Nuance Express, meanwhile, **starts** at \$250 per concurrent **user**. The company **says** both products are available for Windows NT, Sun Solaris, IBM AIX, SCO Unix and Digital...

17/3, K/5 (Item 2 from file: 16)
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05918649 Supplier Number: 53150306 (USE FORMAT 7 FOR FULLTEXT)

Talk, Talk, Talk: Speech-Recognition Software Catches Consumers' Eyes. (IBM's ViaVoice 98 and Dragon Systems' NaturallySpeaking 3.0 voice recognition software) (Software Review) (Evaluation)

Halpin, Jon
Computer Shopper, p103(1)
Dec 1, 1998
Language: English Record Type: Fulltext
Article Type: Evaluation
Document Type: Magazine/Journal; General Trade
Word Count: 643

Five years ago, **speech recognition** required special hardware, a lot of money, and a person willing to...talk...like...this, using a very limited **vocabulary**. Not surprisingly, it wasn't a big seller. During the first half of this year, however, unit sales of **speech - recognition** products increased more than 100 percent, with revenue growing 200 percent over last year's.

Speech - recognition software is clearly on a fast track to becoming a legitimate consumer item. It is making inroads everywhere. **Word processing**, natural **language** search programs, form entry, transcription, medical and legal record systems, corporate applications, e-mail and Internet chat, and automated telephone services are all being targeted by new products.

" **Speech recognition** has a 'gee-whiz' factor," says Roger Matus, vice president of marketing at Dragon Systems...

... something new."

IBM's ViaVoice 98 and Dragon Systems' NaturallySpeaking 3.0 are the leading **speech - recognition** programs on the market. Each company has products for less than \$60. Both use continuous rather than isolated speech and can handle an extensive **vocabulary**, and both offer additional software that handles technical terms specific to certain occupations.

As the **speech - recognition** software market gets crowded with companies and products, and as the technology improves, IBM and...

... at IBM sees improved accuracy, increased ease of use, and lower prices as having brought **speech - recognition** software to this point.

"This is a great, exciting technology," she says. "It's useful...

... into Standard, Preferred, and Professional versions. Both companies have also released legal- and medical-specific **vocabulary** modules.

ViaVoice 98 Office Edition offers specific business and finance topics to add to the base **vocabulary**, and the Executive version adds another topic, computing. For the Home product, IBM included a cuisine topic.

"The topics differentiate the products," London **says**. "For novice **users** of Home, where teenagers would be working on book reports, ViaVoice is a simple dictation **application**. Office and **Executive** offer more involved navigation tools." Dragon offers business and computer **vocabulary** modules separately.

Dragon Systems' big new release for the holiday season is NaturallySpeaking for Teens, a **speech - recognition** program aimed directly at young adults. Dragon Systems went out to school districts and set...

17/3, K/6 (Item 3 from file: 16)
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05879131 Supplier Number: 53058527 (USE FORMAT 7 FOR FULLTEXT)
Internet Telephony: Motorola Introduces Voice Browser Technology For Accessing Web Content from Telephones. (Company Business and Marketing)
EDGE, on & about AT&T, pNA
Oct 5, 1998
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade

Word Count: 928

... leveraging their existing skills to bring their customized content from the **Web** to the mobile **user**.

A voice-activated flight **status** service is one example of a VoxML **application** that provides convenient **access** to timely information. A user calling in to access airline information simply says, "Is the...

... may interface with encapsulated dialogue components such as SpeechObjects from Nuance Communications, the leader in **speech recognition** for self-service transactions. SpeechObjects are reusable speech components that incorporate the potentially complex dialogue and **vocabulary** that may be used in speech applications.

"VoxML adds enormous potential to the development of...

17/3, K/7 (Item 4 from file: 16)

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05222084 Supplier Number: 47964852
IBM voice input package is OK for nontypists.

Lutz, Zach

Government Computer News, p36

Sept 8, 1997

Language: English Record Type: Abstract

Document Type: Magazine/Journal; Tabloid; Trade

ABSTRACT:

... IBM Corp. is a less-expensive product than the company's VoiceType Dictation 3.0 **speech recognition**, which is more powerful. Simply Speaking will be favored by nontypists over one-finger keyboard...

... and VoicePad, which is a modified version of Microsoft Windows' WordPad, that translates what the **user says** into text. Unlike VoiceType Dictation, Simply Speaking does not allow you to **start applications** by voice or to dictate sentences into a word processor. The VoicePad must be utilized...

... to translate voice commands into the text. IBM says that Simply Speaking has a 90% **speech recognition** capability. Although conjunctions, prepositions, nouns, and verbs are handled well by the 20,000-word **dictionary**, the package has difficulty recognizing other tenses. The package, priced at \$50, has potential but...

17/3, K/8 (Item 5 from file: 16)

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03571883 Supplier Number: 45020935 (USE FORMAT 7 FOR FULLTEXT)

IBM APTIVA PCS INCLUDE CYLOGIC'S VOICE USER SOFTWARE

PR Newswire, pN/A

Sept 27, 1994

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 348

... using the software immediately without training.

"All the commands can be spoken the moment you **launch** the **voice recognition application**," says Robert Hayes, President of Cylogica. Hayes also **says** that **users** with deep, or heavy foreign accents can instantly 'Quick Train' the software (52 words) with...

17/3, K/9 (Item 6 from file: 16)
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03041489 Supplier Number: 44135047 (USE FORMAT 7 FOR FULLTEXT)

(NOT QUITE) THE LAST WORD

VARbusiness, p85

Oct, 1993

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1726

... Spell.

Modern speech technology can be broken down into three categories: products that let computers **synt hesi ze** **speech** from digital **input**; those that let them **recogni ze** (or enter) **speech** from outside sources; and those that combine and build on the first two categories to...

...available for the enabling technologies market segment, whose users are often on a tight budget.

Speech synt hesi s technology produces spoken output either from text appearing on a computer screen or in response...

...spreadsheets by having the computer read aloud ranges of numbers. Visually impaired users can use **speech synt hesi s** technology to access data and other information displayed on the computer screen. Most **speech synt hesi s** systems also digitally record, store, edit and play back speech - useful for sound effects and sending verbal electronic mail. Many systems also offer limited **speech recogniti on** that lets users verbally enter some software commands.

VARs report surprisingly good results working with even the low-end **speech synt hesi s** products. 'Until I beta tested the Windows Sound System I thought it was a toy...

...a long download session, that you might otherwise miss.'

Elton B. Sherwin Jr., manager of **speech recogniti on** strategy at IBM, says even VARs that are not primarily interested in reselling speech systems...

...the competition at a relatively low cost,' he says.

In contrast to the low-end **speech synt hesi s** the high-end products, such as Digital Equipment Corp.'s DECtalk PC **Speech Synt hesi zer** and Emerson & Stern Associates Inc.'s Sound Bytes, are likely to be used in settings where speech is the primary input mechanism. These products offer faster **speaki ng** rates, higher speech quality, **user**-definable **dicti onari es** and more sophisticated pronunciation, punctuation and **grammar** options, among the other features. They are typically used with screen **access programs** capable of feeding them information from the computer screen. Examples include TeleSensory's ScreenPower, Henter-Joyce Inc.'s JAWS, and, for Macintosh, Berkeley Systems Inc.'s out SPOKEN.

Speech recogniti on isn't a new idea, but it has gone beyond the just-talk stage only...but it turned out to be a difficult problem. Speech is tremendously complex.'

For decades, **speech recogniti on** was restricted mainly to high-end vertical markets with limited **vocabul ary**, high-throughput data entry needs - for example, insurance companies and medical recording firms. In the...

...and efficient, and processing power dropped in price, changing the market.

Oberteuffer predicts that once **speech recogniti on** crosses an accuracy/robustness/price threshold, there will be widespread, immediate acceptance. He even suggests...

...until a combination of circumstances caused their prices to drop during the 1980s.)

Still, current **speech recognition** systems, although vastly better than those available even a few years ago, fall far short... and performance. A comprehensive 1993 report by San Francisco market analysis firm Frost & Sullivan states: '**Voice recognition** is the least developed of voice technologies and is widely considered to be a technology ...

...its infancy. Industry experts agree it will be at least a decade before a mature **voice recognition** product is introduced in the market.'

Most midrange **speech recognition** systems are speaker-dependent; they require 'training' - via the tedious repetition of key words and...

...intonation and vocal patterns of particular speakers. Many also fall short of providing truly continuous **speech recognition** because users must insert a brief pause between words. They also tend to be overly...

...the company offers. IBM, Kurzweil Applied Intelligence Inc. (Waltham, Mass.), Dragon Systems Inc. (Newton, Mass.), **Voice Processing Corp.** (Cambridge, Mass.), Dialogic (Parsippany, N.J.), Rhetorex (Campbell, Calif.) and Lernout & Hauspie (Brussels, Belgium) are just a few of the companies that license or resell **speech - recognition** algorithms, boards and other components to resellers.

One of the more appealing aspects of **speech recognition** involves Interactive **Voice Response (IVR)** technology. Ideally, an IVR system would blend both **speech synthesis** and **speech recognition** to create an easy-to-use automated response system - say, a fax-on-demand, information ...

...without further human intervention.

In practice, however, there are limitations not just in present-day **speech recognition** technology, but those inherent in the current telephone infrastructure. Telephones distort speech and introduce noise, making over-the-phone **speech recognition** even more difficult than the ordinary kind. Therefore, most current IVR systems rely on touch-tone, not spoken, user input. (Over-the-telephone **speech recognition** is a critical issue in Europe and much of the rest of the world, since...

17/3, K/10 (Item 7 from file: 16)
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01548194 Supplier Number: 41892618 (USE FORMAT 7 FOR FULLTEXT)
VERBEX ANNOUNCES VOCABULARY EXPANSION OF ITS SERIES 6000 VOICE RECOGNITION BOARD AND CONVERSATIONAL VOCESTATION
News Release, p1
Feb 28, 1991
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 613

... of the expanded memory boards is dramatically less than that of previously available, comparable large **vocabulary** systems and boards."

The expanded **vocabulary** options increase support for multiple speakers and multiple applications. Verbex's "speaker flexible" software allows any authorized member of a department to speak into any conversational **voice input** microphone unit. Each operator can use a number of different microphones at different locations in the work

area, and can **access** more than one **application** from any microphone.

Any department **user** can independently activate any **station** and instantly **access** his/her voice **file**.
After a brief initial training session, the speakers' voice patterns can be permanently stored on...

17/3, K/11 (Item 8 from file: 16)
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01371429 Supplier Number: 41626977
VERBEX VOICE SYSTEMS ANNOUNCES THE QUICK VOICE QUALITY INSPECTION AND CONTROL SYSTEM (TM)
News Release, p1
Oct 23, 1990
Language: English Record Type: Abstract
Document Type: Magazine/Journal; Trade

ABSTRACT:
...use a number of different microphones at different locations in the work area, and can **access** more than one **application** from any microphone. Any department **user** can independently activate any **station** and instantly **access** his/her voice **file**. The flexibility of the VoiceStation offers the advantages of "speaker independence," plus high speed, accuracy, and a virtually unlimited **vocabulary**. The Quick Voice Quality Inspection and Control System recognizes millions of sentences, commands and unlimited...

...Verbex system is language independent and understands regional accents and foreign languages. It also accurately **recognizes** variations in **speech** during high throughput, high noise or other stress-induced conditions.

17/3, K/12 (Item 1 from file: 20)
DIALOG(R) File 20: Dialog Global Reporter
(c) 2008 Dialog. All rights reserved.
54115230 (USE FORMAT 7 OR 9 FOR FULLTEXT)
EuroNews launches free online language training
DMEUROPE
February 06, 2007
JOURNAL CODE: WDM LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 188

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... and are then invited to practise the chosen language through a series of comprehension questions, **vocabulary** and **grammar** exercises. Each lesson is supplemented by orthographical and grammatical explanations. The first English lesson is...

17/3, K/13 (Item 2 from file: 20)
DIALOG(R) File 20: Dialog Global Reporter
(c) 2008 Dialog. All rights reserved.
02972552 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Motorola Introduces Voice Browser Technology For Accessing Web Content from Telephones
BUSINESS WIRE
September 30, 1998 13:0
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 969

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... self-service transactions. SpeechObjects are reusable speech components that incorporate the potentially complex dialogue and **vocabulary** that may be used in speech applications. "VoxML adds enormous potential to the development of...

17/3, K/14 (Item 1 from file: 47)
DI ALOG(R) File 47: Gale Group Magazine DB(TM)
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04068402 SUPPLIER NUMBER: 15387734 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Voice recognition making some noise: integration remains an obstacle for I.S. (vendors unveil software at Spring 1994 Comdex trade show)
Schroeder, Erica
PC Week, v11, n20, p22(1)
May 23, 1994
ISSN: 0740-1604 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 493 LINE COUNT: 00041

... including Kurzweil Applied Intelligence Inc., Dragon Systems Inc., Speech Systems Inc., Philips Dictation Systems Inc., **Voice Processing** Corp., and Timeworks Inc. will target this arena with new **voice - recognition** products.

But the largest obstacle to adoption of **voice recognition** is integrating it into installed applications. To smoothly use **voice recognition** in an application requires a **user** to **speak** naturally; for example, saying " **Open new file** and name it xyz," rather than having to incorporate a one-second delay between each...

...goal, Kurzweil is preparing to announce an alliance with vendors including WordPerfect Corp. to integrate **speech recognition** into applications. This will enable users to use voice more smoothly, said officials of the...

...Orem Utah.

At Comdex, Speech Systems will debut Phonetic Engine 500, a speaker-independent, continuous **speech - recognition** software package with a large **vocabulary**. The \$595 product uses an add-in ISA/EISA card with an on-board digital...

...Phonetic Engine 500 System Development Kit costs \$995.

Philips will debut Speech Magic, its continuous **speech - recognition** software due this fall. **Voice Processing** will debut a version of its **voice - recognition** software for command and control of applications.

Kurzweil will also demonstrate the Windows version of...

...Newton, Mass., company.

Finally, Timeworks will introduce at the show its Timeworks Say It Command **Voice Recognition** System which will be priced at less than \$300 when it is released in June...

17/3, K/15 (Item 2 from file: 47)
DI ALOG(R) File 47: Gale Group Magazine DB(TM)
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04057242 SUPPLIER NUMBER: 15316740 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Hearing voices. (the growing speech-recognition market) (PC Week/Insider)
Snyder, Bill
PC Week, v11, n15, pA1(2)

April 18, 1994

ISSN: 0740-1604

WORD COUNT: 877

LANGUAGE: ENGLISH

LINE COUNT: 00068

RECORD TYPE: FULLTEXT; ABSTRACT

... of next year. "The market has taken us by surprise," admits Elton Sherwin, manager of **speech - recognition** strategy for IBM Power Personal Systems. "We're a year ahead of where we expected..."

... further up the food chain. His program Voice User, sits atop Voice Pilot, the Microsoft **program** that enables voice **activation** of **programs** within the Windows Sound System Voice **User**, he **says**, extends its rudimentary **vocabulary** and command set and improves the interface. Hayes, of course, hopes that OEMs will bundle...

17/3, K/16 (Item 3 from file: 47)

DI ALOG(R) File 47: Gale Group Magazine DB(TM)

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03234039 SUPPLIER NUMBER: 07528021 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Why can't computers talk.

Fong, Diana

Forbes, v143, n9, p130(1)

May 1, 1989

CODEN: FORBA

ISSN: 0015-6914

LANGUAGE: ENGLISH

RECORD TYPE:

FULLTEXT

WORD COUNT:

817

LINE COUNT:

00065

... automatically.

What hubris. By the mid-1960s the scientists realized that linguistic talent goes beyond **lexicons** and parsing. Typical of the output of a computer translator: "Out of sight, out of..."

... the U.S. subsidiary of Bravice International, a Japanese company, closed down last September. Automated **Language Processing** Systems in Salt Lake City, which does computer-assisted translation, is the only firm in...

... The problem is that language translation is far subtler than simply substituting words from a **dictionary**. To translate, a machine must understand; to understand, it must have not just a **dictionary** and rules of syntax, but also common sense. "The green house on the hill" would...

... a month to lease software for one language pair, such as English-French. The enormous **programs** run on IBM mainframes and Wang mini computers, among other systems. Logos **says** that a **user** whose translation needs exceed 3,000 pages a year would save by using a computer...

^ 17/3, K/17 (Item 1 from file: 75)

DI ALOG(R) File 75: TGG Management Contents(R)

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00325547 SUPPLIER NUMBER: 133373035 (USE FORMAT 7 FOR FULL TEXT)

You talkin' to me? Voice recognition software quickly making a name for itself. (VOICE RECOGNITION)

Owsen, Dwight M.; Schneider, Kent N.

California CPA, 73, 9, S8(2)

May, 2005

ISSN: 1530-4035

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT:

1260

LINE COUNT:

00107

... onto accounting professionals' desks.

WHAT IS VOICE RECOGNITION SOFTWARE?

Simply, voice recognition software allows computer **users** to **speak**

commands into their computers--such as " **open file** "--via a microphone to complete the task.

Voice recognition systems range from high-end applications...

...on functionality.

Microsoft Office XP, office.microsoft.com/en-us/assistance/HA010565111033.aspx, possesses basic **speech recognition** capabilities, which can be an inexpensive way to experiment with the technology.

Want greater capabilities...

^ 17/3, K/18 (Item 1 from file: 88)

DIALOG(R) File 88: Gale Group Business A. R. T. S.

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03447680 SUPPLIER NUMBER: 15061341

Survey of current speech technology. (includes related articles on speech recognition and synthesis technology) (Artificial Intelligence) (Cover Story) (Technical)

Rudnick, Alexander I.; Hauptmann, Alexander G.; Kai-Fu Lee

Communications of the ACM, v37, n3, p52(6)

March, 1994

DOCUMENT TYPE: Technical ISSN: 0001-0782 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3315 LINE COUNT: 00342

Automatic **speech recognition** (ASR) has gained a significant amount of commercial success due to its demonstrable increase in...

...ASR are dictation, personal computer interfaces, automated telephone services, and special purpose industrial applications.

Large **vocabulary** dictation: "unrestricted" dictation (e.g., business letters or newspaper articles) and structured report generation (e...)

...with the system for an extended period of time. Discrete-word systems are prevalent. Current **vocabulary** capacities range up to 40,000 words. These systems are meant to be used under...

...system is increased by its ability to adapt to an individual's voice (speaker adaptation), **vocabulary** (new word learning), and tasks (language model adaptation).

For interfacing with personal computers, the "electronic...

...computer interface. Some of the nearer-term opportunities include:

- * Speech as a shortcut. Rather than **opening a file** by traversing many levels of hierarchy, a **user** just **says** "OPEN BUDGET."

- * Hands busy/eyes busy. Change the font style while a user is typing...

...use or even nonexistent, thereby making speech a competitive alternative.

The main challenge for desktop **speech recognition** is the current existence of a mature and efficient alternative--the keyboard (and pointer). It...

...whether the user's intent was identified and the correct action taken).

The availability of **speech recognition** technology has encouraged the development of prototypes that merge speech capabilities into a general-purpose computer interface [12, 13]. Research on the usefulness of **speech recognition** for various activities is also under way. For the most part, work in this area...

...and has not been able to explore the capabilities of more advanced recognition technology [9].

Synt hesi s

Speech synt hesi s offers an output channel in cases where visual displays are either not possible, insufficient, or awkward (such as over the telephone or while driving). The goal for most **speech synt hesi s** systems is to produce speech of useful intelligibility; the ultimate goal is to produce speech...

...of complete sentences is again over five times as large as that of natural human **speech** (4.7% **synt hesi zed** vs. 0.8% for natural speech) [11]. Furthermore, these intelligibility studies were conducted in a...

17/3, K/19 (Item 1 from file: 148)

DI ALOG(R) File 148: Gale Group Trade & Industry DB
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09444183 SUPPLIER NUMBER: 19343424 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Dragon Systems: continuous voice-recognition software. (Naturally Speaking)
(Product Development)

O Heir, Jeff

Computer Reseller News, n730, p16(1)

April 7, 1997

ISSN: 0893-8377

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT:

543

LINE COUNT:

00045

... each word and even allowed Gould to verbally correct or change words, select from a **dictionary** and choose fonts. The software hardly failed at picking up the correct words and even...

...user's voice, officials said.

"From a reseller perspective, this is the Holy Grail of **speech recognition**. This is prime time," said Michael Mardini, vice president of Talk Technology Inc., a New York-based reseller of integrated **speech - recognition** systems.

Resellers expect product sales to grow beyond vertical markets.

Mardini and Laith Amiry, director of Talk Wite, a **speech - recognition** systems integrator in Oxford, England, said they each sold about 1,000 units of Dragon...

17/3, K/20 (Item 1 from file: 275)

DI ALOG(R) File 275: Gale Group Computer DB(TM)
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02057757 SUPPLIER NUMBER: 19334866 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Development tool s. (Speech Solutions Voice Tool s) (Software Review) (Evaluation)

Nicolaisen, Nancy

Computer Shopper, v17, n5, p602(4)

May, 1997

DOCUMENT TYPE: Evaluation

ISSN: 0886-0556

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT:

2658

LINE COUNT:

00212

... great deal of investigative effort.

Technically, true continuous recognition allows for both free-form spoken **input** and natural **speech** rhythms. Continuous availability means that a **speech - recognition** system is constantly "listening" to the user and is always able to assign the proper...

...short term

Continuous recognition requires a vast amount of statistical data on

the speaker's **vocabulary** and idiosyncratic habits of expression. Continuous availability suffers from a similar defect in that it...
...exacting, ponderous solutions.

Recall that Voice Tools' controls rely on the IBM VoiceType engine for **speech recognition**. This wouldn't be good news if it also meant that the controls demanded discrete- **speech input**. However, most of Voice Tools' controls take advantage of the circumstances relevant to using spoken...

...to prevent your application from behaving erratically and to ensure that it doesn't receive **speech input** at inappropriate times, even if the user forgets to issue the commands that turn off the microphone.

Getting Started

Speech processing is a relatively complex and processor-intensive task; therefore, it's important to start designing...

...will need a 90MHz Pentium processor or faster, 50MB of hard drive space for the **speech - recognition** package, at least 16MB of RAM, a microphone, speakers, and a Sound Blaster 16 (or...

...that contains the Sonar Tool a nonvisible form whose role is to orchestrate and control **voice processing**, so it's typical to set the Start Visible property to False in the Load...

...Start Form You'll set up additional visible forms to construct an application that includes **voice - recognition** controls to handle jobs such as managing an application or filling in forms.

The programming...

...visual components is simple and straightforward, mostly amounting to the use of a handful of **speech - processing** properties to define the behavior of the controls. The SayPlay and SayRecord properties specify the command word a **user** must **speak** to **start** a sound **file**'s playback and recording respectively, and PlayInterruptable determines whether a sound file may be interrupted...checking the status of various elements of the application, such as the microphone and the **vocabulary** database.

Perhaps of the most immediate interest is the Voice Terminal's What Can I...

...the recognition engine new words. Out of the box, the IBM recognition engine has a **vocabulary** of 20,000 words. Users can add up to 2,000 words using the Voice...

17/3, K/21 (Item 2 from file: 275)

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01877703 SUPPLIER NUMBER: 17882442 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Now hear this: speech recognition reaches a new level of sophistication - and a mainstream audience. (Technology Information) (Column)

Aubrey, David

Computer Shopper, v16, n1, p622(2)

Jan, 1996

DOCUMENT TYPE: Column ISSN: 0886-0556

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2427 LINE COUNT: 00199

... word depends on its context rather than its sound.

It is for these reasons that **speech - recognition** technology, one of the oldest and most intriguing fields of computer research, has been slow...

...of human cognition, imagine how difficult it is for engineers to translate or mimic the **processes** of **speech** and hearing with computer

technology. It is by no means impossible, however--some major progress has been made in the area of **speech recognition**. Here we look at the technology behind such products and review an exceptional new **speech - recognition** product from Dragon Systems.

The Spoken Word

In other computing applications, a problem's complexity...

...capacity of the hardware and software tools created to solve them. The challenges linked to **speech recognition**, however, have remained constant; after all, the fundamental aspects of speech haven't changed over the past 20,000 years or so. Today's designers of **speech - recognition** applications struggle with the same basic obstacles faced by the pioneering researchers. The applications they...

...Finally, they must match the word constructions to a list of known words in their **vocabulary** to produce text or detect meaning.

If you've followed this technology's development, you...

...commercially available products and see how trade-offs among them influence quality and usability.

Since **speech recognition** is a fairly esoteric technology, it is helpful first to discuss differences among available products...

...or precede them. In fact, recent research that studied the performance of a high-quality **speech recognition** engine showed that its most frequent processing errors were associated with the most common monosyllabic words; this pattern held across six major languages. By contrast, continuous-**speech recognition** systems allow the speaker to use a more natural cadence. It's a great advantage...

...dictation on a typical desktop system

A speaker-dependent recognition system must be "trained" to **recognize** the **voice** and speech habits of individual users. Generally, this involves reading the system a standard text...

...within a few weeks. Such systems have the advantage of allowing users to increase their **vocabulary** dynamically; their disadvantage is that they cannot be readily shared among many **users**. By contrast, **speaker-independent** systems require no training and can be used in public-**access applications**.

Another distinguishing factor is the size of a recognizer's active **vocabulary**. While a system may be capable of recognizing a large variety of words, the key consideration is its "active" **vocabulary**--how many different words it can distinguish at any given time. Some systems can distinguish...

...identify words based on context.

Fragments and Phrases

One of the most exciting developments in **speech recognition** is the advent of reliable "software-only" solutions, which take advantage of a computer's...speaker-dependent engine such as Dragon's, the first step is the construction of a **vocabulary**. The built-in Dragon **vocabulary** consists of about 30,000 words (in the classic edition), which are modeled using tools...

...speakers to record various texts.

Once they have accumulated a large database of waveform samples, **speech signal-processing** experts look at frames of speech data and hand label the groups of frames that...

...to frames and phonemes, more and more of the recognition is handled automatically by the **vocabulary**-generation tools. Human intervention is required only to correct errors in a fairly small number...

...in the 25,000 words of the Dragon Dictate's recognition engine. (Interestingly, increasing the **vocabulary**'s size to 64,000 words only increases the total count of PICs to 32,000, and decreasing the **vocabulary** to 8,000 words reduces the number of PICs to only 1,000.) With this...

...sound to construct its Hidden Markov Model. The Markov Model, a foundation technology for most **speech - recognition** engines, produces a compact representation of a "piece-wise" constant approximation to the spectrogram
Dragon...

17/3, K/22 (Item 1 from file: 636)
DIALOG(R) File 636: Gale Group Newsletter DB(TM)
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03992355 Supplier Number: 53103795 (USE FORMAT 7 FOR FULLTEXT)
PROGRAMMERS LEARN TO TALK AGAIN WITH MOTOROLA'S VOXML LANGUAGE.
Voice Technology & Services News, v17, n21, pNA
Oct 13, 1998
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 900

... in a matter of days, leveraging existing skills to deliver customized Web content to mobile **users**.
A voice-activated flight **status** service is one example of a VoxML **application** that provides convenient **access** to information. A **user** wanting airline information **says**, "Is the ABC Airline's flight from Washington, D.C. on time?" The airline's...

...Park, Calif.-based Nuance Communications. SpeechObjects are reusable speech components that incorporate complex dialogue and **vocabulary** used in speech applications.
"VoxML is independent of any **speech recognition** engine," Patel says. "**Speech recognition** has come a long way in recent months. However VoxML is an application representation language...
...engines.
"Our implementation happens to work on what we believe is an industry leader in **speech recognition**, but different people will have different implementations of the voice browser on different core technologies..."

17/3, K/23 (Item 1 from file: 647)
DIALOG(R) File 647: CMP Computer Fulltext
(c) 2008 CMP Media, LLC. All rights reserved.

00543871 CMP ACCESSION NUMBER: VAR19931001S2223
(NOT QUITE) THE LAST WORD - A Killer App, Speech Technology's Time Has Come
HILARY RETTIG
VARIABLES, 1993, n 916, 85
PUBLICATION DATE: 931001
JOURNAL CODE: VAR LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADLINE: MULTIMEDIA
WORD COUNT: 1739

... Spell.
Modern speech technology can be broken down into three categories: products that let computers **synthesize speech** from digital **input**; those that let them **recognize** (or enter) **speech** from outside sources; and those that combine and build on the first two categories to...

...available for the enabling technologies market segment, whose users are often on a tight budget.

Speech synthesis technology produces spoken output either from text appearing on a computer screen or in response...

...spreadsheets by having the computer read aloud ranges of numbers.

Visually impaired users can use **speech synthesis** technology to access data and other information displayed on the computer screen. Most **speech synthesis** systems also digitally record, store, edit and play back speech useful for sound effects and sending verbal electronic mail. Many systems also offer limited **speech recognition** that lets users verbally enter some software commands.

VARs report surprisingly good results working with even the low-end **speech synthesis** products. "Until I beta tested the Windows Sound System I thought it was a toy...

...a long download session, that you might otherwise miss."

Elton B. Sherwin Jr., manager of **speech recognition** strategy at IBM, says even VARs that are not primarily interested in reselling speech systems...

...the competition at a relatively low cost," he says.

In contrast to the low-end **speech synthesis** products, the high-end products, such as Digital Equipment Corp.'s DECtalk PC **Speech Synthesizer** and Emerson & Stern Associates Inc.'s Sound Bytes, are likely to be used in settings where speech is the primary input mechanism. These products offer faster **speaking** rates, higher speech quality, **user**-definable **dictionaries** and more sophisticated pronunciation, punctuation and **grammar** options, among other features. They are typically used with screen **access programs** capable of feeding them information from the computer screen. Examples include TeleSensory's ScreenPower, Henter-Joyce Inc.'s JAWS, and, for Macintosh, Berkeley Systems Inc.'s outSPOKEN.

Speech recognition isn't a new idea, but it has gone beyond the just-talk stage only...

...but it turned out to be a difficult problem. Speech is tremendously complex."

For decades, **speech recognition** was restricted mainly to high-end vertical markets with limited **vocabulary**, high-throughput data entry needs for example, insurance companies and medical recording firms. In the ...

...and efficient, and processing power dropped in price, changing the market.

Oberteuffer predicts that once **speech recognition** crosses an accuracy/robustness/price threshold, there will be widespread, immediate acceptance. He even suggests...until a combination of circumstances caused their prices to drop during the 1980s.)

Still, current **speech recognition** systems, although vastly better than those available even a few years ago, fall far short...

...and performance. A comprehensive 1993 report by San Francisco market analysis firm Frost & Sullivan states: " **Voice recognition** is the least developed of voice technologies and is widely considered to be a technology...

...its infancy. Industry experts agree it will be at least a decade before a mature **voice recognition** product is introduced in the market."

Most midrange **speech recognition** systems are speaker-dependent; they require "training" via the tedious repetition of key words and...

...intonation and vocal patterns of particular speakers. Many also fall short of providing truly continuous **speech recognition** because users must insert a brief pause between words. They also tend to be overly...

...the company offers. IBM, Kurzweil Applied Intelligence Inc. (Waltham, Mass.), Dragon Systems Inc. (Newton, Mass.), **Voice Processing** Corp. (Cambridge, Mass.), Dialogic (Parsippany, N.J.), Rhetorex (Campbell, Calif.) and Lernout & Hauspie (Brussels, Belgium) are just a few of the companies that license or resell **speech - recognition** algorithms, boards and other components to resellers.

One of the more appealing aspects of **speech recognition** involves Interactive **Voice** Response (IVR) technology. Ideally, an IVR system would blend both **speech synt hesis** and **speech recognition** to create an easy-to-use automated response system say, a fax-on-demand, information...

...without further human intervention.

In practice, however, there are limitations not just in present-day **speech recognition** technology, but those inherent in the current telephone infrastructure. Telephones distort speech and introduce noise, making over-the-phone **speech recognition** even more difficult than the ordinary kind. Therefore, most current IVR systems rely on touch-tone, not spoken, user input. (Over-the-telephone **speech recognition** is a critical issue in Europe and much of the rest of the world, since...

24/3, K/1 (Item 1 from file: 15)

DI ALOG (R) File 15: ABI / Inform (R)

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01573559 02-24548

Take on the challenges of speech recognition for industrial applications

Perez-Mendez, Ivan

Automatic I.D. News v13n12 PP: 54-56 Nov 1997

ISSN: 0890-9768 JRNL CODE: AI N

WORD COUNT: 1974

...TEXT: speech-centric interface for wearable computers would have the following elements:

A standard set of **operating system voice commands** for all applications which control actions that are common to all wearable devices and speech...

...date, and so on.

A standard set of application voice commands that deal with common **applicati on** activities, such as **accessing files**, scrolling text and asking for help.

The body of the application does not have to...

...recognition accuracy

In general, the out-of-the-box accuracy of state-of-the-art **speech recognition** engines is not adequate for all types of applications and environments. Out-of-the-box...

...be accomplished with dedicated engines. For success, it is most often necessary to adapt the **speech recognition** engine to both the environment, including the background noise and microphone characteristics, and the application.

Speech data collection. To adapt speaker-independent **speech recognition** systems, **speech** data must be tailored to the application and the environment. Speech data means digital recordings...

^ 24/3, K/2 (Item 2 from file: 15)

DI ALOG(R) File 15: ABI/Inform(R)

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01419725 00-70712

Talking to your computer is finally becoming a reality

Anderson, Steve

Rough Notes v140n4 PP: 68-69 Apr 1997

ISSN: 0035-8525 JRNL CODE: RNO

WORD COUNT: 1191

...TEXT: computer skills (such as agency owners and producers).

The three key players in the PC-based **voice - recognition** market Dragon Systems, Kurzweil Applied Intelligence, and IBM all have roughly equivalent capabilities, but with inevitable...

...that you designate. The Kurzweil system allows you to enable virtually any WindowsTM software to **recognize** your **voice** commands.

Star Trek gives us a picture of the ultimate goal of **speech recognition**, natural conversation with a computer. Though, not close to the Star Trek level yet, the latest **speech - recognition** programs are closer than ever to reaching the ultimate goal of speaker-independent, continuous dictation. The newest programs allow you to speak naturally when giving your PC commands such as " **Open file** ." But the current crop of PC-based systems still requires discrete speech, where users must...

...and intuitive. The system worked seamlessly with our existing sound card without any problems. To **start** using the **program** we had to complete a simple setup routine that configured the sound level on our...

...memos, letters, reports and other documents through dictation. We were impressed with its ability to **recognize** our **voice**. The system allows you to format text, navigate through the application's menus and dialogs...

...settings, and preview and print documents using intuitive voice commands.

Kurzweil VoicePad has an active **vocabulary** of 11,500 commonly spoken words and the ability to add 500 words that are...

...this Evaluation Release.

This evaluation program is a great way for you to see if **voice recognition** will work for your office. The more advanced (and more expensive) Voice Professional v2.5...

...voice response applications. The three major reasons why agencies and companies have yet to embrace **voice recognition**: quality, price, and the degree of integration between the **voice** software and **operating systems** and applications are rapidly being satisfied.

System requirements

Cost also is no longer as large...

24/3, K/3 (Item 1 from file: 16)

DI ALOG(R) File 16: Gale Group PROMT(R)

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09988277 Supplier Number: 86821544 (USE FORMAT 7 FOR FULLTEXT)

ScanSoft Launches Dragon NaturallySpeaking XP Edition in Europe with the Broadest Language Support Available.

Business Wire, p2089

June 6, 2002

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 668

... I launched ScanSoft(R) Dragon NaturallySpeaking(R) XP Edition, the latest release of its award-winning **speech recognition** software for Europe. The new Dragon NaturallySpeaking software is available for home, small business, corporate...

...were introduced earlier this year.

ScanSoft Dragon NaturallySpeaking is the market-leading automatic dictation and **speech recognition** product for Microsoft(R) Windows(R) and Windows XP. The highly accurate speech product allows...

...to 160 words-per-minute, saving time and increasing worker productivity. Dragon NaturallySpeaking also enables **voice - control** of Microsoft Windows **operating system** commands and third-party PC applications, giving users an efficient way to **start programs**, save **files**, surf the Web and create email.

"As a lawyer, I needed a dictation product that...

...create documents and reports."

Dragon NaturallySpeaking achieves its accuracy in part through a built-in **vocabulary** of more than 250,000 words, and through its support for adding custom vocabularies. The...

...meets their specific needs. These include:

- The industry's highest accuracy rate for desktop automatic **speech recognition**
- Converting **voice** into text at up to 160 words-per-minute
- Hands-free, voice-enabled control of...

24/3, K/4 (Item 2 from file: 16)

DIALOG(R) File 16: Gale Group PROMT(R)

(c) 2008 The Gale Group. All rights reserved.

04412884 Supplier Number: 46474175 (USE FORMAT 7 FOR FULLTEXT)

IBM INCLUDES ANDREA ELECTRONICS' NOISE-CANCELING HEADSETS FOR WORLDWIDE RELEASE OF ITS NEW OS/2 WARP VERSION

PR Newswire, p0617NYM115

June 17, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 760

... noise. Andrea Anti-Noise(R) microphone technology enhances all voice-driven computing applications, such as **speech recognition**, telephony, **speech** over the Internet, videoconferencing, multi-party conferencing, multimedia and interactive games.

Merlin integrates IBM's...

...Internet access. Additionally, Merlin will incorporate Java into the operating system, allowing it to natively **run Java applications** and Internet applets independent of a Web browser. It will be the first major Intel-based operating system with built-in **speech recognition** and will take the concept of ease-of-use to an entirely new level.

"With Merlin, IBM is leading the way to the next generation of easy-to-use **operating systems**," said John N. Andrea, co-president of Andrea Electronics Corporation. "Computing has clearly achieved significant

advances in **voice**-interactive **operating** and Andrea Electronics' noise-canceling products enhance all of these applications."
Merlin continues IBM s...

...inserting pauses between words, in order to navigate through the desktop and menus. The navigation **dictionary** in Merlin will include common desktop navigation words. Dictation will come with a base **vocabulary** of 22,000 words and will allow the addition of up to 42,000 more...

24/3, K/5 (Item 1 from file: 20)
DIALOG(R) File 20: Dialog Global Reporter
(c) 2008 Dialog. All rts. reserv.

17222761 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Speaking to machines but do they listen?
SECTION TITLE: Business
IRISH INDEPENDENT
June 14, 2001
JOURNAL CODE: FII LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 825

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... it, voice command is not all that dramatic.
Far more impressive is the capability of **processing** **speech** directly into editable on-screen text.
Speech to text dictation has been in development by...

24/3, K/6 (Item 1 from file: 47)
DIALOG(R) File 47: Gale Group Magazine DB(TM)
(c) 2008 The Gale group. All rts. reserv.

02596246 SUPPLIER NUMBER: 00566646 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Project: Data Base: Part 7.
Stallings, S.
PC Magazine, v3, n17, p218-219
Sept. 4, 1984
DOCUMENT TYPE: evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 18541 LINE COUNT: 01417

... on the screen, which, in turn, is passed to the program generator to create a **program** for **execution**. As always, the resulting program can be edited and saved.

The VIEW module uses an...can be invoked directly from a menu, or can be reached after a REQUEST-generated **program** has been **executed** or after an error has occurred in a request or program SALVO programs are divided ...

...a bit of practice, but this would be the case with any new high-level **language**. The **output** programs from REQUEST and VIEW modules were tremendously helpful as learning tools, although some detailed...a dictionary term record. If you call for that term in a query, you are **executing** a **program** that will then create the data to be displayed on the report. The program could...

24/3, K/7 (Item 2 from file: 47)
DIALOG(R) File 47: Gale Group Magazine DB(TM)
(c) 2008 The Gale group. All rts. reserv.

02582946 SUPPLIER NUMBER: 03420780 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Project: data base, part 7. (evaluation)

Stallings, Stephanie
PC Magazine, v3, p218(44)
Sept 4, 1984

DOCUMENT TYPE: Evaluation LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 18541 LINE COUNT: 01417

... on the screen, which, in turn, is passed to the program generator to create a **program** for **execution**. As always, the resulting program can be edited and saved.

The VIEW module uses an... can be invoked directly from a menu, or can be reached after a REQUEST-generated **program** has been **executed** or after an error has occurred in a request or program SALVO programs are divided ...

... a bit of practice, but this would be the case with any new high-level **language**. The **output** programs from REQUEST and VIEW modules were tremendously helpful as learning tools, although some detailed... a dictionary term record. If you call for that term in a query, you are **executing** a **program** that will then create the data to be displayed on the report. The program could...

24/3, K/8 (Item 1 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB
(c) 2008 The Gale Group. All rts. reserv.

09964887 SUPPLIER NUMBER: 20140949 (USE FORMAT 7 OR 9 FOR FULL TEXT)

ART Announces smARTcommander for Palm PC

PR Newswire, p110CGSA001

Jan 10, 1998

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 513 LINE COUNT: 00050

... Prompts and helpful browsers simplify programming. Users can easily add new words to smARTcommander's **vocabulary** to build their own personal voice library.

smARTcommander will be available in the Spring of...

24/3, K/9 (Item 2 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB
(c) 2008 The Gale Group. All rts. reserv.

08760026 SUPPLIER NUMBER: 18361016 (USE FORMAT 7 OR 9 FOR FULL TEXT)

At Comdex: from Merlin to Microsoft. (IBM's Merlin operating system products from Microsoft) (Industry Trend or Event)

Richards, Kathleen

Computer Retail Week, v6, n136, p1(2)

June 3, 1996

ISSN: 1066-7598 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 572 LINE COUNT: 00048

... pages using voice commands. Merlin will also feature dictation capability, with a built-in starter **vocabulary** of 10,000 words, and will broaden support to include Java applications and True Type...

24/3, K/10 (Item 1 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)
(c) 2008 The Gale Group. All rts. reserv.

01692974 SUPPLIER NUMBER: 15518865 (USE FORMAT 7 OR 9 FOR FULL TEXT)

IBM's replacement for the keyboard: voice recognition systems. (IBM

Personal Dictation System (Hardware Review) (includes related articles on the ASIC chip handling most of the voice processing algorithms, the system's Voice Action Editor and a user's view of the system)
(Evaluation)

Boxer, Steve

PC User, n235, p40(4)

May 18, 1994

DOCUMENT TYPE: Evaluation ISSN: 0263-5720

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3516 LINE COUNT: 00261

... a macro language; instead, you're given a choice of all possible voice or keyboard- **activated** commands in that **application** (OS/2 2.1 is very good at this) and you just pick and choose...

...IPDS, the more convinced you become that it surely forms the basis of a future **voice - input operating system**.

24/3, K/11 (Item 2 from file: 275)

DI ALOG(R) File 275: Gale Group Computer DB(TM)

(c) 2008 The Gale Group. All rts. reserv.

01433820 SUPPLIER NUMBER: 10769161 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Natural language comes of age.

Varhol, Peter D.

Personal Workstation, v3, n5, p22(3)

May, 1991

ISSN: 1047-4013

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1694 LINE COUNT: 00134

... must define organization-specific words in terms of words that are in Natural Language's **lexicon**, or in terms of an SQL query. This enables the user to phrase queries using...technology than database query? The answer has to be yes. Any software that uses a **command language** or a menuing interface is a candidate for natural language. In fact, any **operating system** that does not have an integrated graphical user interface should consider using natural language.

More...

...between computer and user. Once the appropriate system calls are built into the operating system **applications** can **start** using those calls to present their own natural language interface. This could not only revolutionize the...

...software, but it could also provide the basis for the most intuitive interface of all: **voice recognition**. The problems of implementing both technologies are similar in that both attempt to understand the syntax and semantics of the English **language**. **Voice recognition**, complicated by millions of different accents and inflections, is far more difficult. However, conquering the...

24/3, K/12 (Item 1 from file: 610)

DI ALOG(R) File 610: Business Wre

(c) 2008 Business Wre. All rts. reserv.

00860814 20030303062B2234 (USE FORMAT 7 FOR FULLTEXT)

ScanSoft Ships Dragon NaturallySpeaking 7; Speech Recognition Goes Mainstream With Most Accurate and Fastest Release Ever - Significant New Features and Enhancements Result in 50 Percent Improvement in Performance; Accuracy Rates...

Business Wre

Monday, March 3, 2003 08:02 EST

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE
WORD COUNT: 1,308

...the writing style of the user, and the Performance Assistant, which optimizes the efficiency of **speech recognition** based on a user's workflow. In total, the accuracy and performance improvements within Dragon NaturallySpeaking 7 deliver an unmatched level of productivity and ease of use for **speech recognition** products.

"Dragon NaturallySpeaking has been a boon to those who need to limit their typing...

...accuracy and ease-of-use advancements in Dragon NaturallySpeaking 7 represent a step forward in **speech recognition** technology for users at home and in the office. Dragon NaturallySpeaking 7 was designed and...

...Intel is

pleased to have worked with ScanSoft, a member of the Intel (R) Early

Access

Program, to deliver the performance needed to make **speech recognition** a valuable solution for all PC users."

The new release also includes expanded network tools...

...throughout an enterprise, a key requirement for large healthcare organizations and corporations looking to implement **speech recognition** solutions.

"Many years of leadership in imaging, and more recently speech technologies, have provided ScanSoft...

...yielded an unprecedented accuracy improvement of up to 15% over the previous release, resulting in **speech recognition** accuracy levels as high as 99 percent. -- Fastest Ever - More than 50 percent improvement in...

...Dictation

Through Natural Punctuation - While professionals are accustomed to speaking

punctuations, Dragon NaturallySpeaking 7 brings **speech recognition** to mainstream users by eliminating the need to say "period" or "comma" when creating e...

...recorders, to record mobile dictation for automatic transcription when they synch to their PCs. -- New **Vocabulary** Optimizer - Users can instruct Dragon NaturallySpeaking to instantly analyze sentence structure and word use frequency...

...patterns, thereby further increasing accuracy. -- Most Accessible Ever - Dragon NaturallySpeaking 7 is the first desktop **speech recognition** solution to be certified as compliant with U.S. Section 508, which is focused on...

...with ScanSoft Real Speak Proofing, which reads email and document text aloud in a human-sounding **synthesized voice**. -- New Performance Assistant - Dragon NaturallySpeaking now optimizes itself for each

user's application usage patterns. -- Accurate Voice Control of the PC - Dragon NaturallySpeaking has improved **voice command** and **control** capabilities, which allows users to use their voice to interact with the PC **operating system** and control application menus. Most applications gain **voice control** capabilities by simply installing Dragon NaturallySpeaking onto the PC. -- Expanded Custom Voice Shortcuts - The ability...

^ 24/3, K/13 (Item 2 from file: 610)
DI ALOG(R) File 610: Business Wre
(c) 2008 Business Wre. All rts. reserv.

00726422 20020606157B2019 (USE FORMAT 7 FOR FULLTEXT)
ScanSoft Launches Dragon NaturallySpeaking XP Edition in Europe with the Broadest Language Support Available-New Dragon NaturallySpeaking(R) XP Edition Supports Automatic Dictation in Five European Languages; Home, Office and...
Business Wre
Thursday, June 6, 2002 08:02 EDT
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
DOCUMENT TYPE: NEWSW RE
WORD COUNT: 823

ScanSoft Dragon NaturallySpeaking is the market-leading automatic dictation and **speech recognition** product for Microsoft(R) Windows(R) and Windows XP. The highly accurate speech product allows...

...to 160 words-per-minute, saving time and increasing worker productivity. Dragon NaturallySpeaking also enables **voice - control** of Microsoft Windows **operating system** commands and third-party PC applications, giving users an efficient way to **start programs**, save **files**, surf the Web and create email.

"As a lawyer, I needed a dictation product that...

...create documents and reports."

Dragon NaturallySpeaking achieves its accuracy in part through a built-in **vocabulary** of more than 250,000 words, and through its support for adding custom vocabularies. The...

... These include:

- Dragon NaturallySpeaking(R) XP Edition Standard is a highly accurate, easy-to-use **speech recognition** product focused on creating text documents and e-mails for home computer users and their...

... Dragon NaturallySpeaking(R) XP Edition Preferred is a full featured, highly accurate, easy-to-use **speech recognition** product focused on creating and editing text documents, reports and e-mails for small office and home office users.

- Dragon NaturallySpeaking(R) Professional is ScanSoft's leading **speech recognition** product aimed at the professional and corporate user. DNS Professional is a powerful productivity tool...

... German and is designed for the special needs of legal

professionals. It includes an extensive **vocabulary** of legal terms, phrases and acronyms.

"ScanSoft is breaking new ground with its first branded **speech recognition**

product line for the European marketplace. By offering Dragon NaturallySpeaking(R) XP Edition in different...

...include (features may vary by edition):

-- The industry's highest accuracy rate for desktop automatic **speech**

recognition -- Converting **voice** into text at up to 160 words-per-minute

-- Hands-free, voice-enabled control of Microsoft Windows-based

applications -- Ability to expand and customize the **vocabulary** -- Option to have e-mails and other documents read aloud using the

award-winning Real Speak...

24/3, K/14 (Item 1 from file: 624)
DIALOG(R) File 624: McGraw-Hill Publications
(c) 2008 McGraw-Hill Co. Inc. All rts. reserv.

00890759

'COMPUTER, SAVE THIS FILE': A software program lets you run your PC by talking to it in everyday English

BY STEPHEN H. WLDSTROM

Business Week, Number 3551, Pg 22

November 3, 1997

JOURNAL CODE: BW

SECTION HEADING: Technology & You ISSN: 0007-7135

WORD COUNT: 578

TEXT:

... 000 or more for an effective dictation system. The limited vocabulary also means you can **start** to use the **program** without the tedious speech training required by dictation systems.

VoiceCommands can handle all of the...

... bug.

COMBO. Of course, what we really need is a system that combines dictation with **voice control** -- and works with all the programs on your computer. Making such software function both smoothly and consistently requires that the **operating system** itself support **speech recognition**. Apple Computer Mac OS included a version of speech command-and-control called PlainTalk for...

24/3, K/15 (Item 1 from file: 636)
DIALOG(R) File 636: Gale Group Newsletter DB(TM)
(c) 2008 The Gale Group. All rts. reserv.

01494985 Supplier Number: 42094803 (USE FORMAT 7 FOR FULLTEXT)

Fifth-generation computer project in its final year

NTIS Foreign Technology Newsletter, v91, n22, pN/A

May 22, 1991

Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 2179

... Neumann language program. In addition, ICOT has developed the world's only full-scale logic **language operating systems** - SIMPOS, for its sequential machines, and PIMOS, for its parallel ones. Finally, the latest versions...

...processors, and then to reintegrate those parts back into the program. ICOT's non-numerical **programs** do not **run** efficiently on such machines. On the other hand, since the Gray and other parallel computers...

...in their operation, nor do they translate between languages. Efforts have not been made toward **voice recognition** because, according to ICOT officials, such a computer would be a "special" computer and ICOT...
...VLSI CAD applications, theoretical math systems, a variety of expert decision systems, legal reasoning and **grammar** /syntax programs, genetic sequencing and other applications in biology, and go-playing programs (similar to...

24/3, K/16 (Item 1 from file: 647)
DIALOG(R) File 647: CMP Computer Fulltext
(c) 2008 CMP Media, LLC. All rts. reserv.

01092989 CMP ACCESSION NUMBER: CRM9960603S0004

At Comdex: From Merlin to Microsoft
Kathleen Richards
COMPUTER RETAIL WEEK, 1996, n 636, PG01
PUBLICATION DATE: 960603
JOURNAL CODE: CRW LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADLINE: News
WORD COUNT: 525

... beta this month and ship in the second half of 1996, Merlin is the first **operating system** to offer integrated **speech recognition** that will allow users to **launch files** and even navigate Internet Web pages using **voice commands**. Merlin will also feature dictation capability, with a built-in starter **vocabulary** of 10,000 words, and will broaden support to include Java applications and True Type...

29/3, K/1 (Item 1 from file: 9)
DIALOG(R) File 9: Business & Industry(R)
(c) 2008 The Gale Group. All rts. reserv.

01424341 Supplier Number: 24072084 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Call Centers: Customizing the Customer Approach

(Call centers are increasingly becoming a more central, integrating hub for linking customers and in-house work processes; by 1998, average spending on call center technology by banks with over \$1 bil in deposits will reach the \$5 mil to \$6 mil level)

Financial Service ONLINE, p S27-S30

November 1997

DOCUMENT TYPE: Journal; Industry Overview (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 2093

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...marketing for Syntellect of Roswell, GA, important areas of development

include call center intelligence, "virtual **access** " **applications** , and large-vocabulary, speaker-independent speech recognition.

Putting intelligence within the call center is essential...
...application is compatible with ActiveX, Microsoft's OLE and Dynamic Document Exchange (DDE).

A virtual **access** **application** is one that gives customers the ability to access the same bank services using their...

...and by telephone.

Another thing that is new for call centers, says Reece, is large-**vocabulary** , speaker-independent **speech** **recognition** . "Most of the **speech** **recognition** that has been deployed up to this point has been pretty simplistic. It can understand...

...can do that. It's deliverable."

The VocalPoint SpeechReco Server has a 20,000 word **vocabulary** per application, and it delivers **voice** **recognition** capabilities to IVRs on an as-needed basis. It's phonetics based, says Reece, and...

...them in the system. Another important feature is grammar spotting, which can pick out noise **words** and **link** key **words** into phrases to structure a command.

Reece says that SpeechReco has unlimited possibilities for **applications** , all of which need to be custom designed -- by Syntellect or by the financial institution...

29/3, K/2 (Item 1 from file: 15)

DI ALOG(R) File 15: ABI/Inform(R)

(c) 2008 ProQuest Info&Learning. All rts. reserv.

02154653 71749993

A virtual investigation of global contact center technologies

Tehrani, Rich

Customer Inter@ction Solutions v19n10 PP: 10-17 Apr 2001

JRNL CODE: TLM

WORD COUNT: 4224

...TEXT: the speech recognition business since 1972!

SpeechPearl 2000. It's amazing what 30 years of **speech** **recognition** has yielded. SpeechPearl 2000 is the latest version of the Philip's core engine for host-based, large **vocabulary** natural **language** **recognition** , which allows users to develop applications with true grammars. This allows end users to interact with the **speech** **recognition** system as if it were a live person.

In practical terms, this allows a customer...

...to my savings account number 12345." Employees of Philips tell me their use of open **grammar** technology allows users to develop applications more quickly, as **speech** **recognition** and natural **language** understanding can actually be done in two different steps. This is in contrast to closed grammars in which each **utterance** must be previously **matched** .

This type of flexibility allows users to organize grammars for things such as location, useful in an **application** such as directory assistance, or even the cost and type of food for a restaurant...

...you to design full call flow. The system then outputs the equivalent

code needed to **run** your **application**. This component features something called mixed initiative dialog, which allows the system to determine which ...

29/3, K/3 (Item 2 from file: 15)

DI ALOG(R) File 15: ABI/Inform(R)

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01541333 01-92321

Customizing the customer approach

Anonymous

US Banker v107n11 PP: S27-S30 Nov 1997

ISSN: 0148-8848 JRNL CODE: USI

WORD COUNT: 1936

...TEXT: marketing for Syntellect of Roswell, GA, important areas of development include call center intelligence, 'virtual **access** " **applications** , and large-vocabulary, speaker-independent speech recognition.

Putting intelligence within the call center is essential...

...application is compatible with ActiveX, Microsoft's OLE and Dynamic Document Exchange (DDE).

A virtual **access application** is one that gives customers the ability to access the same bank services using their...

...and by telephone.

Another thing that is new for call centers, says Reece, is large-**vocabulary** , speaker-independent **speech recognition** . "Most of the **speech recognition** that has been deployed up to this point has been pretty simplistic. It can understand...can do that. It's deliverable."

The Vocal Point SpeechReco Server has a 20,000 word **vocabulary** per application, and it delivers **voice recognition** capabilities to IRs on an as-needed basis. It's phonetics based, says Reece, and...

...them in the system. Another important feature is grammar spotting, which can pick out noise **words** and link key **words** into phrases to structure a command.

Reece says that SpeechReco has unlimited possibilities for **applications** , all of which need to be custom designed - by Syntellect or by the financial institution...

29/3, K/4 (Item 3 from file: 15)

DI ALOG(R) File 15: ABI/Inform(R)

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01314030 99-63426

Speech recognition: From the lab to the real world

Cameron, Hugh; Heffner, Ken; Pancholy, Rajiv

Telesis n101 PP: 28-31+ Sep 1996

ISSN: 0040-2710 JRNL CODE: TLS

WORD COUNT: 4478

...TEXT: Until recently, the cost and effort to develop fixed vocabularies limited wide-scale use of **speech recognition** . The investment could be justified only for applications like AABS, in which a small fixed **vocabulary** - that is, "yes" and "no" responses - needs to be recognized, and where the potential call volume is large. For the vast majority of

voice- **act i v a t e d** telecommunications **ap p l i c a t i o n s** to become practical, the creation of new vocabularies would have to be divorced from the...

...that can be pronounced in different ways, likely alternatives can be stored in the target **v o c a b u l a r y** set.

FVR was one of the critical elements in success of Nortel's StockTalk, the world's first large- **v o c a b u l a r y**, dial-up **s p e e c h - r e c o g n i t i o n** service. Introduced as an internal trial service in 1992 and now handling up to 4...
...that more naturally mimics human conversations.

Rejection enables the system to decide whether a given **s p e e c h i n p u t** is not a good **m a t c h** for any **w o r d** modeled in the target **v o c a b u l a r y**. This capability is particularly useful in **ap p l i c a t i o n s** where the target **v o c a b u l a r y** is not intuitively obvious to users, or where callers are not expecting their requests to...

...example, the recognizer mistakes an out-of-vocabulary input for a word in the target **v o c a b u l a r y**); and false rejection (where a caller's valid in-vocabulary request is deemed to be out-of- **v o c a b u l a r y**).

To ensure the robustness of its **s p e e c h - r e c o g n i t i o n** technology under the challenges posed by the telecommunications environment, Nortel engineered FVR preprocessing techniques to...

...solutions, Nortel is evolving StockTalk and other speech applications in a new direction with continuous- **s p e e c h r e c o g n i t i o n** and intuitive-dialog recognition (see page 35).

Unlike FVR technology where recognition is limited to individual words or short phrases, continuous- **s p e e c h r e c o g n i t i o n** will enable a system to recognize multiple **v o c a b u l a r y** items within a single **s p e e c h i n p u t**, such as those found in complete sentences or sentence fragments. To achieve this capability, the...Nortel's recently developed connected digit recognition (CDR) technology. CDR will be employed in voice- **act i v a t e d** dialing (VAD), an **ap p l i c a t i o n** that allows users to quickly trigger calls by speaking the string of digits for a...

29/3, K/5 (Item 4 from file: 15)
DI ALOG (R) File 15: ABI / Inform (R)
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01145584 97-94978
Voice recognition - An opportunity being missed?
Tyler, Geoff
Management Services v39n11 PP: 30-32 Nov 1995
ISSN: 0307-6768 JRNL CODE: MNS
WORD COUNT: 2402

...TEXT: solicitors, Masons. He is among the people who have found complementary in-office and mobile **ap p l i c a t i o n s** and **s t a r t s** with a word of caution.

The principle of speaking to one's computer instead of...so one's existing hardware could be called into play. It also has a full **ap p l i c a t i o n s** programming interface for **l i n k i n g**, for instance, to proprietary **w o r d** processing systems.

There is one further development which boggles the mind somewhat. Once the voice...

...which way as such systems allow us to do. It can also be used as **i n p u t** to a **l a n g u a g e** translation system

A lot of regular travellers now use pocket sized computers containing foreign language electronic **dictionaries** which translate single words or short passages of text typed on their keyboards and display...

...developed in its own laboratories in London a system with a 250,000 word **vocabulary** and the ability to **recognise** continuous **speech** at 60 to 70 words a minute. It will deliver the translated result in screened...

29/3, K/6 (Item 5 from file: 15)

DI ALOG(R) File 15: ABI/Inform(R)

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01137702 97-87096

Hot products: Dragon Systems DragonDictate for Windows 2.0 speech recognition and dictation software

Nie, Norman

Computer Reseller News n661 PP: 194 Dec 4, 1995

ISSN: 0893-8377 JRNL CODE: CRN

WORD COUNT: 580

...TEXT: different price points, differentiated mainly by the number of words that each contains in its **dictionary**.

Description

The **speech - recognition** software enables control of Windows using voice commands and dictation into nearly any application, including Word Excel and WordPerfect. The Classic Edition includes a 30,000-word active **vocabulary** list and a 100,000+ word backup dictionary. DragonDictate is available in British English, German...

...to run after installation and setup, the engineer found running the tutorial and quick training **programs** necessary before getting **started**. Distinct speech (spoken speech where there is a pause after every word) is necessary for...

...Center engineers were impressed with DragonDictate's spoken-word recognition speed. Also impressive was the **program's** automatic checklist feature. When it hears a word it does not recognize, it prompts from a list of known **words** for selection of a possible **match** or the addition of a newly spoken one. As words are accepted, DragonDictate "learns" and...

29/3, K/7 (Item 6 from file: 15)

DI ALOG(R) File 15: ABI/Inform(R)

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00835767 94-85159

West breaks new ground with LawTalk: Voice recognition for WESTLAW

Griffith, Cary

Information Today v11n3 PP: 10-11 Mar 1994

ISSN: 8755-6286 JRNL CODE: IFT

WORD COUNT: 1320

...TEXT: though its name should be Jack or Jill instead of a monitor with a microphone. "**Open files**," the person says. And by the latest miracle of technology that's exactly what it...

...than simply turning it on and talking to it.

LawTalk is based on DragonDictate, a **voice recognition** engine produced by Dragon Systems, Inc. from Newton, Massachusetts. DragonDictate contains an extensive **vocabulary** (30,000 words), with an additional 110,000 words

in a backup list. According to...

29/3, K/8 (Item 7 from file: 15)
DI ALOG(R) File 15: ABI/Inform(R)
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00622631 92-37733
Voice Processing Systems
Helms, Glenn L.
Internal Auditor v49n3 PP: 62-68 Jun 1992
ISSN: 0020-5745 JRNL CODE: IAU
WORD COUNT: 3062

...TEXT: keying in a password. Any individual who has knowledge of the password can gain unauthorized **access** to **files**. In order to **access** a voice system the user is required to speak a password. A voiceprint is created...

...In such cases, developers should consider acquiring directional microphones which filter out irrelevant background sounds.

Speech recognition systems also have behavioral implications. Users who train a speaker-independent system typically talk in a more formal voice when they construct a **vocabulary**. When the system becomes operational and the user speaks in his/her natural voice with...

...recorded standardized voice responses are not as easy to edit as typed text. Sometimes the **vocabulary** is recorded by several individuals, which may also make the **voice output** systems difficult to understand. In order to avoid user dissatisfaction, **voice output** systems should use a pleasant human voice recorded by one individual.

Many voice output systems...data processing applications. The speaker verification option can ensure that only authorized users are granted **access** to **application** and data. The speaker verification process can be set at a low tolerance so that...

29/3, K/9 (Item 1 from file: 16)
DI ALOG(R) File 16: Gale Group PROMT(R)
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04103618 Supplier Number: 45983718 (USE FORMAT 7 FOR FULLTEXT)
Results from the Comdex Show Floor: CRN Test Center, Part 2
Computer Reseller News, p184
Dec 4, 1995
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 3870

... different price points, differentiated mainly by the number of words that each contains in its **dictionary**.

Description

The **speech - recognition** software enables control of Windows using voice commands and dictation into nearly any application, including Word, Excel and WordPerfect. The Classic Edition includes a 30,000-word active **vocabulary** list and a 100,000+ word backup dictionary. DragonDictate is available in British English, German...

...to run after installation and setup, the engineer found running the tutorial and quick training **programs** necessary before getting **started**. Distinct speech (spoken speech where there is a pause after every word) is necessary for...

...Test Center engineers were impressed with DragonDictate's spoken-word recognition speed. Also impressive was the **program**'s automatic checklist feature. When it hears a word it does not recognize, it prompts from a list of known **words** for selection of a possible **match** or the addition of a newly spoken one. As words are accepted, DragonDictate "learns" and...

29/3, K/10 (Item 1 from file: 20)
DIALOG(R) File 20: Dialog Global Reporter
(c) 2008 Dialog. All rts. reserv.

06037441 (USE FORMAT 7 OR 9 FOR FULLTEXT)
CANADA: SPEECH RECOGNITION SOFTWARE MARKET (1)
VIKTORIA PALFI, HAMID SHIRAZI
INDUSTRY SECTOR ANALYSIS
May 25, 1999
JOURNAL CODE: FISA LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 4786

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... in the growth of speech technology. She said that, "handheld devices that incorporate cell-phone **links**, PDA **applications**, handwriting **entry**, and infrared connectivity will be physical necessities for communication in the next millennium and will...

29/3, K/11 (Item 1 from file: 47)
DIALOG(R) File 47: Gale Group Magazine DB(TM)
(c) 2008 The Gale group. All rts. reserv.

05170157 SUPPLIER NUMBER: 20636400 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Lip service. (voice recognition software) (Evaluation)
Komando, Kim
Popular Mechanics, v175, n6, p100(4)
June, 1998
DOCUMENT TYPE: Evaluation ISSN: 0032-4558 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 2062 LINE COUNT: 00158

... another" also was funny, but I'll spare dear Mom) During one of my test **runs**, both **programs** recorded "a 2 and a 6" as "a 286"--interesting in that most 286s that...

...around 9 are indeed of pale metal.

I also found it noteworthy that although both **programs** claim to **match** context for like-sounding **words**, ViaVoice used "accept" instead of "except" in the last sentence of the first paragraph. I...

...And with Microsoft Word, they're flagged as I type them)

On the other hand, **speech recognition** software can only type words that are in its **dictionary**. That means that when you use this software, each word is spelled correctly--even if...

...voice commands to operate your system For example, issuing the command "open" automatically selects the **Open** command from the **File** menu. This isn't quite as easy as it seems. For example, suppose you're...

29/3, K/12 (Item 2 from file: 47)
DIALOG(R) File 47: Gale Group Magazine DB(TM)
(c) 2008 The Gale group. All rts. reserv.

02672333 SUPPLIER NUMBER: 00594063 (USE FORMAT 7 OR 9 FOR FULL TEXT)

When You Talk, Your PC Listens.

Schoen, J.

PC Magazine, v4, n5, p122-132

March 5, 1985

DOCUMENT TYPE: evaluation ISSN: 0888-8507

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 5773 LINE COUNT: 00447

... input system at a reasonable price, the AutoPilot 1000 is the best I reviewed.

TECMAR VOICE RECOGNITION BOARD

The Tecmar PC-Mate **Voice Recognition** Board falls between the VocaLink and AutoPilot in price (\$995 plus optional microphone), **vocabulary** capacity, versatility, and ease of use. The manual was simple to follow and the software...

...installation problems, this board stands as a good example of the solid potential of reliable **voice input** in various application programs.

Tecmar's board, like the VocaLink, uses its own memory to store the **vocabulary** and speech templates, and so it does not require system memory. Though only 8K of...

...a vocabulary of 100 words. With a 16K option, a 200-word vocabulary is available. (**Programs** that do not **run** under PC-DOS, however, are apparently not available to the board. The board recognized my...

...additions are fairly simple.

The routine also stores files (you give a filename when you **start** the **program**) and makes a backup copy automatically. Once you enter and store commands, you train them..

...the commands with additional repetitions. One helpful feature of the training mode is that the **program** produces two test results as you speak each word, showing how well the spoken **word matches** the voice print stored so far. Once trained, the template is stored in a **file** that you name separately.

The board's utility program like the VocaLink, also has a...

29/3, K/13 (Item 3 from file: 47)

DI ALOG(R) File 47: Gale Group Magazine DB(TM)

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02658241 SUPPLIER NUMBER: 03673450 (USE FORMAT 7 OR 9 FOR FULL TEXT)

When you talk, your PC listens. (evaluation)

Schoen, John

PC Magazine, v4, p122(11)

March 5, 1985

DOCUMENT TYPE: evaluation LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 5773 LINE COUNT: 00447

... input system at a reasonable price, the AutoPilot 1000 is the best I reviewed.

TECMAR VOICE RECOGNITION BOARD

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The board's utility program like the VocaLink, also has a...

29/3, K/14 (Item 1 from file: 148)

DI ALOG(R) File 148: Gale Group Trade & Industry DB
(c) 2008 The Gale Group. All rts. reserv.

13412953 SUPPLIER NUMBER: 74407733 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A Virtual Investigation Of Global Contact Center Technologies. (Company Business and Marketing)

Tehrani, Rich
Customer Interaction Solutions, 19, 10, 10
April, 2001

LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 4455 LINE COUNT: 00347

... you to design full call flow. The system then outputs the equivalent code needed to **run** your **application**. This component features something called mixed initiative dialog, which allows the system to determine which...

29/3, K/15 (Item 2 from file: 148)

DI ALOG(R) File 148: Gale Group Trade & Industry DB
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08318413 SUPPLIER NUMBER: 17825254 (USE FORMAT 7 OR 9 FOR FULL TEXT)
How distributors can make money on the difficult task of selling services. (Changing Channels) (Industry Trend or Event) (Column)

Adler, Allan
Computer Reseller News, n661, p174(1)
Dec 4, 1995

DOCUMENT TYPE: Column ISSN: 0893-8377 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 8161 LINE COUNT: 00677

... Test Center engineers were impressed with DragonDictate's spoken-word recognition speed. Also impressive was the **program's** automatic checklist feature. When it hears a word it does not recognize, it prompts from a list of known **words** for selection of a possible **match** or the addition of a newly spoken one. As words are accepted, DragonDictate "learns" and...

29/3, K/16 (Item 3 from file: 148)

DI ALOG(R) File 148: Gale Group Trade & Industry DB
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07213708 SUPPLIER NUMBER: 15267374 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Voice training. (Microsoft Corp.'s Windows Sound System) (Product

Announcement)

Desmarais, Norman

CD-ROM World, v9, n2, p64(3)

Feb, 1994

DOCUMENT TYPE: Product Announcement

ISSN: 1066-274X

LANGUAGE:

ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 1405 LINE COUNT: 00112

... voice model for use on different computers.

While many of the same commands such as **File**, **Open**, Page Up, and Page Down apply to all Windows programs, Microsoft's applications do not...

... System owners need not restrict themselves to Voice Pilot commands, however. They can use the **program** to **activate** keystroke combinations just like any macro -- say, a keystroke that adds an illustration of a...

29/3, K/17 (Item 1 from file: 275)

DI ALOG(R) File 275: Gale Group Computer DB(TM)

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01590356 SUPPLIER NUMBER: 13667609 (USE FORMAT 7 OR 9 FOR FULL TEXT)

A natural language processor. (Technical)

Suereth, Russell

C Users Journal, v11, n4, p57(11)

April, 1993

DOCUMENT TYPE: Technical

ISSN: 0898-9788

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3832 LINE COUNT: 00293

... have 20 entries and can contain information from 20 input sentences. Next, the main routine **opens** the dictionary **file** named **diction**. If the dictionary opened successfully, the main control flow of the program is...

... Several processes occur within the while statement for each sentence. From a broad view, the **program** extracts the sentence **words** and **matches** them with the dictionary, which contains information about the word. The **program** loads this word information into arrays that it analyzes to determine the underlying structure of...run, runs, ran, and running, the word run is the root. Each verb in the **dictionary** has a root. The root will later identify a group of similar words that may be used in a generated response sentence. An expanded natural **language processor** that generates many different responses would find the root invaluable. For example, given the input...

^ 29/3, K/18 (Item 1 from file: 636)

DI ALOG(R) File 636: Gale Group Newsletter DB(TM)

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02314991 Supplier Number: 44500202 (USE FORMAT 7 FOR FULLTEXT)

VOICE TECHNOLOGY AND COMPUTERS: IS THIS THE END OF THE KEYBOARD?

Voice Technology News, v6, n5, pN/A

March 8, 1994

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 401

... exceeds 98 percent, ignoring background noise as well as unfamiliar words, allowing the user to **input voice** commands as needed without the fear of substitution errors.

VoiceMuse has unlimited vocabulary size, and the interface monitors current active **application** and adjusts the **vocabulary** to **match** that

application word -to- **word** or macro-to-macro. A **recognized voice** command either can **launch** another **application** or invoke a keyboard macro. The software operates with all popular 8 and 16-bit...

...between words. Verbeke said users can skip through Windows layers with a single spoken phrase, **start** a **program** by saying its name or enter data in a spreadsheet.

The system learns an individual...

29/3, K/19 (Item 1 from file: 647)
DIALOG(R) File 647: CMP Computer Fulltext
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01075795 CMP ACCESSION NUMBER: CRN19951204S0121

RESULTS FROM THE COMDEX SHOW FLOOR

Edited by Joel Shore
COMPUTER RESELLER NEWS, 1995, n 661, PG184
PUBLICATION DATE: 951204
JOURNAL CODE: CRN LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: CRN Test Center
WORD COUNT: 7294

... different price points, differentiated mainly by the number of words that each contains in its **dictionary**.

Description

The **speech - recognition** software enables control of Windows using voice commands and dictation into nearly any application, including Word, Excel and WordPerfect. The Classic Edition includes a 30,000- word active **vocabulary** list and a 100,000+ word backup dictionary. DragonDictate is available in British English, German...to run after installation and setup, the engineer found running the tutorial and quick training **programs** necessary before getting **started**. Distinct speech (spoken speech where there is a pause after every word) is necessary for...
...Test Center engineers were impressed with DragonDictate's spoken- word recognition speed. Also impressive was the **program's** automatic checklist feature. When it hears a word it does not recognize, it prompts from a list of known **words** for selection of a possible **match** or the addition of a newly spoken one. As words are accepted, DragonDictate "learns" and